APPENDIX C FIELD LOGS



· ·	me: DCD	ring No	S.D.	DV C	11		Mon	itoring Wall No. NA			
	No. 03-6523-044	_		ev. Not Available Completion Depth: 7'							
			bed Dep			anac	<i>,</i>	Rotary Depth: NA			
	/State: Tooele Co./Utah		rt Date:		1/26/0	0		_	sh Date: 1/26/00		
	ncountered Water: NA Static Water Level: N	_	Dute.		72070	<u> </u>		Ground Cover: Shrubs,grasses&forbes			
	g Equipment:				S	ampl	es	0.00	Personnel		
	be rig; 1.25-inch OD x 2-foot sampler with stainless steel liner	S.			T				G - Wayne Stoner		
\	1				Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	į .	D - Dan Plotts		
				Ġ.	3	lysi	Ιã		ł		
ļ			Γ	Sample No.	le I	\na	Ke	Lithology	H - Brad Holdaway		
·			Depth	dut	🖺	qg /	\ Va	욜	H -		
	DESCRIPTION		in feet	S		_			REMARKS		
ML	(0 to 0.5') Silt, trace fine sand. Color: 7.5YR 4/4 brown.	,		1	NA	Y	NA		SAIC01. Grab Sample.		
	Loose, non-plastic, and moist. Root structures.	_	- 1 -		-	 		,,,,,,,,,			
ML	(1-3') Silt. Color: 10YR 6/3 pale brown. Dense, non-plastic, and			2	1.25'	Y	NA		SAIC02		
	dry.		- 2 -								
1											
 			- 3 -		1	 	-				
			- 4 -		İ						
1			- " -			Ī					
ł			- 5 -								
ML	(5-7') Silt. Color: 10YR 6/3 pale brown. Dense, non-plastic, and.	_			1.5'	Y	NA		SAIC03		
IVIL	dry.		- 6 -	,	1.5	1	110		BAICUS		
į	luy.										
1			- 7 -		·						
	Notes:	_		_					Notes:		
	Total depth of boring is approximately 7 feet BLS.		- <u>-</u>						NA - Not Applicable		
į	2. Borehole was abandoned using granular Ben-Seal bentonite.				ļ				NR - Not Recorded		
	3. Boring location was marked with 1-inch diameter PVC				ĺ				BLS - below land surface		
	pipe with affixed brass tag. The boring identification was								OD - outside diameter		
1	stamped on the tag.										
	4. The drilling company was Dan's Field Service.										
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	me: DCD	+		SB-BK-02 Monitoring Well No. NA ev. Not Available Completion Depth: 12'					
	No. 03-6523-044	+				/ailat	ole	_	pletion Depth: 12'
	No. NA		ed De						ry Depth: NA
	/State: Tooele Co./Utah		t Date:		1/26/0	<u>U</u>			sh Date: 1/26/00
	acountered Water: NA Static Water Level: N	NA_	_	г	C			Grou	and Cover: Shrubs,grasses&forbes
	Equipment:	=0		┝┈	,	ampl		T	Personnel
Geopro	Geoprobe rig; 1.25-inch OD x 2-foot sampler with stainless steel liner				Sample Recovery	Lab Analysis Y/N	N Valves (Blows)		G - Wayne Stoner
				ف ا	၀၁ခ	ysis	(B)		D - Dan Plotts
				Sample No.	e R	lal	ves	Lithology	H - Brad Holdaway
		ji	Depth	ם	ldm	PΑ	\aj	얼	H -
USCS	DESCRIPTION	j	in fect	Sai	Sa	La	z	Ľ	REMARKS
ML	(0 to 0.5') Silt, trace fine sand. Color: 7.5YR 4/4 brown.		-	1	NA	Y	NA		SAIC01. Grab Sample.
	Loose, non-plastic, and moist. Root structures.	4	1 -						
ML	(1-3') Silt, some very fine sand. Color: 10YR 5/4 yellowish	-	-	2	1.0'	Y	NA		SAIC02
	brown. Slightly dense, non-plastic, and very slightly moist.	-	2 -						
l		-	-		·				
		 -	3 -		ļ	<u> </u>	ļ		
		-							
ļ		-	4 -				l		
		-	·				l		
\ <u></u>	(5.7%) C'I		· 5 -	3	1.5'	Y	NA		GA 7002 8 02D D 41
MIL	(5-7') Silt, some very fine sand. Color: 10YR 5/4 yellowish	-	6 -	3	1.5	Y	NA		SAIC03 & 03D. Duplicate collected.
	brown. Slightly dense, non-plastic, and very slightly moist.	-	0 -	ŀ			ĺ		conectea.
		-	7 -						
		- 		 		_			
			8 -						
		-	-						
l		-	9 -						
ŀ		-	-						
		-	10 -						
ML	(10-12') Silt. Color: 10YR 4/2 dark grayish brown. Dense,	-	-	4	1.4'	Y	NA		SAIC04
	non- to very slightly plastic, and dry to very slightly moist.	-	11 -						
		-	-						
			12 -						
	Notes:	-	-						Notes:
	1. Total depth of boring is approximately 12 feet BLS.	-	-						NA - Not Applicable
	2. Borehole was abandoned using granular Ben-Seal bentonite.	-	-						NR - Not Recorded
	3. Boring location was marked with 1-inch diameter PVC	-	-						BLS - below land surface
	pipe with affixed brass tag. The boring identification was	-	-			-		- 1	OD - outside diameter
	stamped on the tag.	-	-						,
	4. The drilling company was Dan's Field Service.	-	-						
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Cita Ni	ame: DCD	Poring M	CI	שם כ	<u> </u>		Mor	nitoring Wall No. NA
	No. 03-6523-044		b. SB-BK-03 Monitoring Well No. NA lev. Not Available Completion Depth: 12'					
		Probed D			y v alli	auic		ary Depth: NA
		Start Date	-	1/25/0	<u></u>			sh Date: 1/26/00
	ncountered Water: NA Static Water Le			1/23/0				
	g Equipment:	vei. NA	T	C.	ampl		Grou	nd Cover: Shrubs,grasses&forbes Personnel
	g Equipment: bbe rig; 1.25-inch OD x 2-foot sampler with stainless steel I	inerc	<u></u>	_	Impi	T =	F	
Geopie	oce rig, 1.25-men OD x 2-100t sampler with stanness seer i	mers.		Sample Recovery	7	N Valves (Blows)		G - Wayne Stoner
1			 -		Lab Analysis Y/	Ē	1	D - Dan Plotts
			Ž	N N	nal)	ည)gy	H - Brad Holdaway
		Depth	[참	賣	Ā	/a]/	ᅙ	н -
uscs	DESCRIPTION	Depth in feet	San	San	ᆵ	Z	Lithology	REMARKS
ML	(0 to 0.5') Silt, trace fine sand. Color: 7.5YR 4/4 brown.	-	1	NA	Y	ΝA		SAIC01. Grab Sample.
	Loose, non-plastic, and moist. Root structures.	1-1-						
GW	(1-3') Gravel and very fine to very coarse sand, Trc silt. Color:	<u> </u>	2	1.3'	Y	NA		SAIC02
	7.5YR 6/3 light brown. Dense, non-plastic, subangular to	- 2 -						
	subrounded gravel and sand, poorly sorted, and dry.							
Ì	,	- 3 -						
Į.		- 4 -				ļ	l	
			.]		l	İ		
		- 5 -		1	•			
ML	(5-7') Silt, some very fine sand. Color: 10YR 5/4 yellowish		3	1.5'	Y	NA		SAIC03 & 03D. Duplicate
	brown. Dense, non-plastic, and dry to very slightly moist.	- 6 -						collected.
			·					·
		- 7 -						
		- 8 -	·					
			·			ĺ		
	·	- 9 -		•				
l			1					
		- 10 -	.				************	
ML	(10-12') Silt, some very fine sand. Color: 10YR 5/4 yellowish		4	1.7'	Y	NA		SAIC04
İ	brown. Dense, non-plastic, and dry to very slightly moist.	- 11 -	·					
]		- -	1					
<u> </u>		- 12 -	1					
}	Notes:		1					Notes:
	1. Total depth of boring is approximately 12 feet BLS.]	1				'	NA - Not Applicable
	2. Borehole was abandoned using granular Ben-Seal bentonite.		1					NR - Not Recorded
	3. Boring location was marked with 1-inch diameter PVC		1					BLS - below land surface
	pipe with affixed brass tag. The boring identification was		1					OD - outside diameter
	stamped on the tag.							[
	4. The drilling company was Dan's Field Service.		1	[
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Site Na	ime: DCD	Во	Boring No. SB-BK-04 Monitoring Well No. NA							
	No. 03-6523-044		rface Ele				ole		pletion Depth: 7'	
Fed ID	No. NA	Pro	bed De	pth:	7'			Rota	ry Depth: NA	
County	/State: Tooele Co./Utah	Sta	rt Date:	1	/25/0	0		Finis	sh Date: 1/26/00	
First E	ncountered Water: NA Static Water Level:	NA						Grou	nd Cover: Shrubs,grasses&forbes	
	g Equipment:				S	ampl			Personnel	
Geopro	obe rig; 1.25-inch OD x 2-foot sampler with stainless steel line	ers.	Depth		Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	Lithology	G - Wayne Stoner D - Dan Plotts H - Brad Holdaway H -	
USCS	DESCRIPTION		in feet	Sample No.	Sam	Lab		[#]	REMARKS	
ML	(0 to 0.5') Silt, some very fine to fine sand. Color: 10YR 4/2 dark	_		1	NA	Y	NA		SAIC01 & 01D. Grab Sample.	
	grayish brown. Slightly dense, slightly plastic, poorly sorted		- 1 -						Duplicate collected	
GM	and moist. Root structures.			2	1.5'	Y	NA		SAIC02	
	(1-3') Gravel and very fine to very coarse sand, some silt. Color: 7.5YR 6/3 light brown. Dense, non-plastic, subangular to subrounded gravel and sand, poorly sorted, and dry.		- 2 - - 3 -	_						
-	, , , , , , , , , , , , , , , , , , , ,	_				<u> </u>			<u> </u>	
			- 4 - - 5 -							
GM	(5-7') Gravel and sand, some silt. Color: 10YR 6/1 gray.			3	1.5'	Y	NA		SAIC03	
J.II	Dense, non-plastic, poorly sorted, and dry to slightly moist.		- 6 - 7 -			_			3.2 00	
	Notes:								Notes:	
	 Total depth of boring is approximately 7 feet BLS. Borehole was abandoned using granular Ben-Seal bentonite. Boring location was marked with 1-inch diameter PVC 								NA - Not Applicable NR - Not Recorded BLS - below land surface	
	pipe with affixed brass tag. The boring identification was stamped on the tag.		 						OD - outside diameter	
	4. The drilling company was Dan's Field Service.									
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		:	 							



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	me: DCD			o. SB-BK-05 Monitoring Well No. NA							
	No. 03-6523-044			ce Elev. Not Available Completion Depth: 12' Rotary Depth: NA							
	No. NA	_							ry Depth: NA		
	/State: Tooele Co./Utah		Date:	1	/25/0	0		-	sh Date: 1/26/00		
	acountered Water: NA Static Water Level: 1	NA_						Grou	nd Cover: Shrubs,grasses&forbes		
	g Equipment:					ampl			Personnel		
Geopro	be rig; 1.25-inch OD x 2-foot sampler with stainless steel lines	rs.	Ì		Sample Recovery	Lab Analysis Y/N	§		G - Wayne Stoner		
	· ·			o.	၂ ၁၃	'SiS	l 👸		D - Dan Plotts		
				Ž	R	laly	es (gg	H - Brad Holdaway		
		Ţ	Depth	ople	ldu	Aı	/alv	Lithology	H -		
uscs	DESCRIPTION	1	in feet	Sample No.	San	Lat	N Valves (Blows)	<u>=</u>	REMARKS		
ML	(0 to 0.5') Silt, some very fine to fine sand. Color: 10YR 4/2 dark	-	-	1	NA	Y	NA		SAIC01. Grab Sample.		
ļ .	grayish brown. Slightly dense, slightly plastic, poorly sorted	1	1 -								
GM	and moist. Root structures.		-	2	1.5'	Y	NA		SAIC02		
	(1-3') Gravel and sand, some silt. Color: 10YR 5/4 yellowish	- -	2 -								
	brown. Dense, non-plastic, poorly sorted, and dry to slightly	-	-								
	moist.	-	3 -								
		-	•								
		-	4 -								
		-	-								
			5 -				<u> </u>				
GM	(5-7') Gravel and sand, some silt. Color: 10YR 5/4 yellowish	-	-	3	1.0'	Y	NA		SAIC03		
İ	brown. Dense, non-plastic, poorly sorted, and dry to slightly moist.	-	6 -								
l		-	-								
<u> </u>			7 -		_		 				
1		-					i				
1		-	8 -								
		-									
		-	9 -] ,			
1		-	10 -					\			
ML	(10-12') Silt, some very fine sand. Color: 10YR 5/4 yellowish	- -	10 -	4	1.5'	Y	NA		SAIC04		
IVIL	brown. Slightly dense, non-plastic, and very slightly moist.		11 -	7	1.5	•	112		SAICO+		
	blown. Singing delise, non-plastic, and very singing moist.										
1		-	12 -				ļ				
	Notes:	<u> </u>							Notes:		
	Total depth of boring is approximately 12 feet BLS.	-	_						NA - Not Applicable		
	2. Borehole was abandoned using granular Ben-Seal bentonite.	-	_[NR - Not Recorded		
1	3. Boring location was marked with 1-inch diameter PVC	-	_						BLS - below land surface		
	pipe with affixed brass tag. The boring identification was	-	-						OD - outside diameter		
	stamped on the tag.]-	-								
1	4. The drilling company was Dan's Field Service.	-	-								
		-	-								
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L	<u></u>	<u> -</u>					i				



Site Na	me: DCD	oring No	No. SB-BK-06 Monitoring Well No. NA						
	No. 03-6523-044 S	urface El	lev. Not Available Completion Depth: 12'						
Fed ID	No. NA	robed De	pth:	12'				ry Depth: NA	
		tart Date:	: :	1/25/0	0		_	sh Date: 1/25/00	
	ncountered Water: NA Static Water Level: NA	١					Grou	nd Cover: Shrubs,grasses&forbes	
	g Equipment:		<u></u>		ampl	_		Personnel	
Geopro	be rig; 1.25-inch OD x 2-foot sampler with stainless steel liners.	Depth	Sample No.	Sample Recovery	Lab Analysis Y/N	Lab Analysis Y/N N Valves (Blows)	Lithology	G - Wayne Stoner D - Dan Plotts H - Brad Holdaway H -	
uscs	DESCRIPTION	in feet	San	San	Lab	<u> </u>	Lit	REMARKS	
ML	(0 to 0.5') Silt, trace fine sand. Color: 7.5YR 4/2 brown.	<u></u>	1	NA	Y	NA		SAIC01 & 01D. Grab Sample.	
G) (Loose, non-plastic, and moist. Root structures.	- 1 -	2	1.01	37	NIA	*****	Duplicate collected.	
GM	(1-3') Sand and gravel, some silt. Color: 7.5YR 6/3 light brown. Dense; non-plastic, subangular to subrounded fine to coarse gravel; poorly sorted; and dry.	- 2 -	2	1.0'	Y	NA		SAIC02	
		- 4 - - 5 -							
ML	(5-7') Silt, trace very fine to fine sand. Color: 7.5YR 4/4 brown Slightly dense, slightly plastic, and slightly moist.	- 6 - - 6 - - 7 -	3	2.0'	Y	NA		SAIC03	
	·	- 8 - - 9 - - 10 -	•						
ML	(10-12') Silt, some clay. Color: 10YR 5/4 yellowish brown. Dense, slightly plastic, and moist.	- 11 - - 12 -	4	1.5'	Y	NA		SAIC04	
	Notes: 1. Total depth of boring is approximately 12 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite. 3. Boring location was marked with 1-inch diameter PVC pipe with affixed brass tag. The boring identification was stamped on the tag. 4. The drilling company was Dan's Field Service.							Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface OD - outside diameter	



Circ 31	max DCD	Ip ·	NT.	C.D.	DV ^	.7		N # -	itaning Wall No. N.A	
	me: DCD			b. SB-BK-07 Monitoring Well No. NA lev. Not Available Completion Depth: 12'						
	No. 03-6523-044 No. NA	_				anat	ne	Completion Depth: 12'		
		_	ed Der		/25/0			_	ry Depth: NA	
_	/State: Tooele Co./Utah ncountered Water: NA Static Water Level: 1		t Date:	!	123/0	U			sh Date: 1/25/00 nd Cover: Shrubs,grasses&forbes	
	g Equipment:	INA		<u> </u>	Ç.	ampl	ec .	Grou	Personnel	
	be rig; 1.25-inch OD x 2-foot sampler with stainless steel lines	rs.		.0	Sample Recovery	Lab Analysis Y/N	N Valves (Blows)		G - Wayne Stoner D - Dan Plotts	
		T	Depth	Sample No.	nple R	Anal	Valves	Lithology	H - Brad Holdaway H -	
USCS	DESCRIPTION		in feet	Sar	Sar	Lat	z	<u>=</u>	REMARKS	
ML	(0 to 0.5') Silt, some very fine sand. Color: 10YR 4/2 dark	-		1	NA	Y	NA		SAIC01. Grab Sample.	
	grayish brown. Slightly dense, slightly plastic, and moist.	1	- 1 -							
ML	Root structures (1-3') Silt. Color: 10YR 6/3 pale brown. Dense, non-plastic, and dry.	- - - - -	2 -	2	1.25'	Y	NA		SAIC02 & 02ND, MS/MSD collected.	
		-	- 4 - 							
ML	(5-7') Silt. Color: 10YR 6/3 pale brown. Dense, non-plastic, and dry.	-	- 6 - - 7 -	3	1.2'	Y	NA		SAIC03	
		- - - -	8 - 9 -							
ML	(10-12') Silt. Color: 10YR 6/3 pale brown. Dense, non-plastic, and dry.	-	· 11 - · 12 -	4	1.5'	Y	NA		SAIC04	
	Notes: 1. Total depth of boring is approximately 12 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite. 3. Boring location was marked with 1-inch diameter PVC pipe with affixed brass tag. The boring identification was stamped on the tag. 4. The drilling company was Dan's Field Service.	-							Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface OD - outside diameter MS/MSD - matrix spike and matrix spike duplicate	



Site Na	me: DCD	Boring 1	oring No. SB-BK-08 Monitoring Well No. NA							
Project				ev. Not Available Completion Depth: 7'						
Fed ID	No. NA	robed I	Depth	: 7	'			Rota	ry Depth: NA	
County	/State: Tooele Co./Utah	tart Da	te:	1/	/26/0	0		Finis	sh Date: 1/26/00	
First E	ncountered Water: NA Static Water Level: NA	4						Grou	nd Cover: Shrubs,grasses&forbes	
	g Equipment:					ampl	•		Personnel	
Geoprobe rig; 1.25-inch OD x 2-foot sampler with stainless steel liners.				Sample No.	Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	Lithology	G - Wayne Stoner D - Dan Plotts H - Brad Holdaway	
11606	DESCRIPTION	Dep	in	a l	amp	ab /	- X	itho	H-	
		in fe		_	NA	Y	NA		REMARKS	
ML	(0 to 0.5') Silt, trace fine sand. Color: 7.5YR 4/4 brown.	1-1		+	IVA	1	INA		SAIC01. Grab Sample.	
ML	Loose, non-plastic, and moist. Root structures. (1-3') Silt, some very fine sand. Color: 10YR 5/4 yellowish	- 1	+	2	1.5'	Y	NA		SAIC02 & 02ND. MS/MSD	
ML	brown. Slightly dense, non-plastic, and very slightly moist.	- 2 - - 3	-		1.5	1	IVA		collected.	
		- - 4 - - 5	- - -							
ML	(5-7') Silt, some very fine sand. Color: 10YR 5/4 yellowish brown. Slightly dense, non-plastic, and very slightly moist.	- - 6 - - 7		3]	1.5'	Y	NA		SAIC03	
	Notes: 1. Total depth of boring is approximately 7 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite. 3. Boring location was marked with 1-inch diameter PVC pipe with affixed brass tag. The boring identification was stamped on the tag. 4. The drilling company was Dan's Field Service.								Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface OD - outside diameter MS/MSD - matrix spike and matrix spike duplicate	



Site Na	ime: DCD	. SB-BK-09 Monitoring Well No. NA							
			ev. Not Available Completion Depth: 7'						
		Probed De					Rotary Depth: NA		
County	/State: Tooele Co./Utah	Start Date:		1/26/0	0		Finis	sh Date: 1/26/00	
First E	ncountered Water: NA Static Water Level: N	IA					Grou	nd Cover: Shrubs,grasses&forbes	
4	g Equipment:		L_	S	ampl			Personnel	
Geopro	bbe rig; 1.25-inch OD x 2-foot sampler with stainless steel liner	Depth	Sample No.	Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	Lithology	G - Wayne Stoner D - Dan Plotts H - Brad Holdaway H -	
USCS	DESCRIPTION	in feet	San	San	Lab	Z	吉	REMARKS	
ML	(0 to 0.5') Silt, trace fine sand. Color: 7.5YR 4/4 brown.		1	NA	Y	NA		SAIC01. Grab Sample.	
	Loose, non-plastic, and moist. Root structures.	- 1 -							
GM	(1-3') Gravel and sand, some silt. Color: 10YR 6/1 gray. Dense, non-plastic, poorly sorted, and dry to slightly moist.	- 2 - - 2 - - 3 -	2	1.2'	Y	NA		SAIC02	
; [1] [2]		- 4 - - 5 -							
GM	(5-7) Gravel and sand, some silt. Color: 10YR 6/1 gray.		3	1.4'	Y	NA		SAIC03	
	Dense, non-plastic, poorly sorted, and dry to slightly moist.	- 6 - 7 -							
	Notes: 1. Total depth of boring is approximately 7 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite. 3. Boring location was marked with 1-inch diameter PVC pipe with affixed brass tag. The boring identification was stamped on the tag. 4. The drilling company was Dan's Field Service.							Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface OD - outside diameter	



an se	DCD		O.E.	חיי י			Monitoring Well No. NA			
	me: DCD			b. SB-BK-10 Monitoring Well No. NA ev. Not Available Completion Depth: 7'						
	No. 03-6523-044 No. NA	_	bed De			allat	ne	1	pletion Depth: 7'	
	No. NA //State: Tooele Co./Utah		t Date:		/ 1/26/0	0	 .		ry Depth: NA sh Date: 1/26/00	
	ncountered Water: NA Static Water Level: N	٠	i Date:		1/20/0	U			nd Cover: Shrubs,grasses&forbes	
	g Equipment:	417				ampl	es	Ciou	Personnel	
Geopre		D. d	Sample No.	Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	Lithology	G - Wayne Stoner D - Dan Plotts H - Brad Holdaway		
USCS	DESCRIPTION	- 1	Depth	amt	am	ab,	I Va	itho	H-	
			in feet	_	NA NA	Y			REMARKS	
ML	(0 to 0.5') Silt, trace fine sand. Color: 7.5YR 4/4 brown.	7	- 1 -	1	NA	<u> </u>	NA		SAIC01. Grab Sample.	
GM	Loose, non-plastic, and moist. Root structures. (1-3') Gravel, some silt to very fine sand. Color: 10YR 6/2 light	\leftarrow		2	1.5'	Y	NA		SAIC02	
OW	brownish gray. Dense, non-plastic, poorly sorted, and dry.		2 -	-	1	1	1144		DAICU2	
		-	- 4 - - 5 -							
GM	(5-7') Gravel, some silt to very fine sand. Color: 10YR 6/1 gray	┧.		3	1.3'	Y	NA		SAIC03	
	Dense, non-plastic, poorly sorted, and dry.	-	· 6 -							
	Notes: 1. Total depth of boring is approximately 7 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite. 3. Boring location was marked with 1-inch diameter PVC pipe with affixed brass tag. The boring identification was stamped on the tag. 4. The drilling company was Dan's Field Service.								Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface OD - outside diameter	

SWMU 11 CHEMICAL MUNITIONS STORAGE AREA (AREA 10)

SWMU 11 SOIL BORING LOGS

Boring Lo	cation	ntion 🔀		EAD-	South		SWMU NO: SWMU-11 ARFA 10						
	_	1 -	Start date and	time:			Completion data and time: Drilling Method: HAWD AUGER HAWD TOOLS F CORE BARREL						
		e	Drilling Cont	ractor: <	AIC								
		ADEA-10	Logged by:	<u>J. P.</u>	ndkto	~							
		Chiadri	Total depth (f	icet): 3	o'86s	Š	Diameter (inches): APPROX. 2'XZ'						
xxxxxx	& Duche	5 04	Sampler type	and size (di	ameter and le	ength): CORE B	ARREL WITH SLEEVES S.S. SPOONS						
ST DIL	CH AT N	ACEA 10.	Samples colle	cted from b	oring: SE	3-11-001A, S	8-11-001 B						
	Head-	Max. PID				•	Lithologic Description						
Depth	space	Reading	Blows	Sample	Sample	Secondary Compounds	(USCS name; color; consistency plasticity; density;						
(feet)	Reading	(ppm)	(6 inches)	Туре	Recovery	and Percentages	moisture content; angularity, additional facts)						
0-	- Ö		NA	AHOL	NA	60% SILT	YELLOWISH BROWN 10 YR S/L SANDY SILT MOIST						
ļ	5B-11-	.∞1A				35% SWD	ARE FILLE TO MED. GRAINED, WELL ROUNDED						
						5% GRAVEL	FWEL SORTED						
	· .	··											
1-													
					_		AT ~1.5 BGS HAVE CAYER OF SUBANVIOL						
. {							GRAVEL, ~ 2-5" IN DIA, PROPER SOUTH						
							1						
2—	_												
3	- 0	0	NA	AHOL	NA	50% SUT	BROWN LOVE 5/3 SAMOY SILT, MOIST, TIRKT, MOD. DEASTY, MOD. PLASTICITY, SAMOS TIME						
ĺ	SB-11	-001B	.			40% SAND	TO MED. GRANNED MOD. SORTIALS AND SURRICH						
{					·	10% GRAVER							
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Boring Location	Project: TEAD - SOUT	TH	SWMU No: SWMU-11, AREA 10							
	Start date and time: 10-10-9	94	Completion data and time; 10-10-94							
Swmu !	Drilling Contractor: SAIC		Drilling Method: HAND ANGER WITH CORE BARREL							
(AZEA 10)	Logged by: J. Hendlet									
4	Total depth (feet): 2 1011	.,	Diameter (inches): 6" CORE BARREL							
BED DRAWAGE DITCH ON WEST SIDE OF AREA IO	Sampler type and size (diameter and	length): CORE BAIZI	EEL WITH SLEEVES T S.S. SPOONS							
(THIRD DITCH FROM NORTH	Samples collected from boring: <	B-11-0024. S	SB-11-002B, SB-11-002B(DUP.)							
Head- Max. PID Depth space Reading (feet) Reading (ppm)	Blows Sample Sample (6 inches) Type Recovery	Secondary Compounds and Percentages	Lithologic Description (USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)							
0-00	NA AHOL NA	45% SAND	YELLOWISH BROWN 10 YR S/A SANDY SALT MOIST, MOD. TO FIRM CONSISTENCY, LOW PLASILITY,							
SB-11-002A		50% SICT	MOD DEVISITY SWOS V. FILE TO TIME COMMED							
		5% CUY	WELL SOLTED AND WELL ROUNDED							
	AT ADDROXIMATELY B	•								
1	SMALL YO OF GRAY M									
	STREAKS THROUGH S.		3 ,							
	10,700,700,700,700,700,700,700,700,700,7		OF SUBPOUNDED GRAVELS,							
2										
0 0	N/A AHOL N/A	80% GRAVEL	GONISH RPOWN 104R 5/2 SILT SAINY GRAVET							
इडिना-कडि	A/H HISC NIA		GRAVISH BROWN 104R 5/2 SILTY SANDY, GRAVEL GRAVEL 1-5" IN SIZE, SUBROUNDED TO ANGULAR,							
	 	15% 5440	HOORLY SORTED, SOND IS FINE TO MED.							
COLLECTED)		5% SILT	SORTED MOD. TO WELL ROUNDED, POORLY							
		<u> </u>								
			(SAMPLE COLLECTED From 2.8 70							
4			3.3 365)							
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Boring Lo	cation	7)	Project: ' -	TPAD-	- SOUT	<u> </u>	SWMU No: SWMU-11, AREA 10
		-	Start date and				Completion data and time;
	==	Swmv-11	Drilling Cont	ractor: S	AIC		Drilling Method: HAND TOOLS HAND AUGETE
		/ADEA 10	Logged by:	7.1	<u>endlet</u>	<u>~</u>	
		(Chiech Co)	Total depth (i	(cct): 3	.0 BE	<u> </u>	Diameter (inches): APPROX. 2'XZ'
Deani	SE DITCH	tes on west	Sampler type	and size (di	ameter and le	ength): COTTE BAI	ZEFL 6" x Z"
END 6	F AREA	10.577 M_WOZT#,	Samples colle	cted from b	oring: Sã	3-11-003A/wr	Diameter (inches): APPROX. 2'XZ' ZRFC 6" X Z" TH SUOC), SB-11-003B(W. SUOC) SB-11-003B(WS/WS)
Depth (feet)	Head- space Reading	Max. PID Reading (ppm)	Blows (6 inches)	Sample Type	Sample Recovery	Secondary Compounds and Percentages	Lithologic Description (USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)
0	- 0 58-11-1	0 003A	NA	4HOL	NA	40% SAND 50% SUT	BROWN 10YR 5/3 SANDY SICT WITH TRACE CLAY MOIST, FIRM, MOD. TO HIGH DENSITY, LOW-) MOD. PUSTICITY
•						10% CL4Y	
1-							AT 26 BGS, SAND AND SILT CONSTITUENTS BECOME MUCH LESS, CLAY BECOMES DOMINATE MATERIAL
2—							,
3	- O S8-11	O - 603B	n/A	AHOL	MA	85% CUY 10% SAND 5% SIET	DARK GRAYISH BROWN 104R 4/2 EAUBY CZAY MOIST, FIRM, DENSE, MOD. DUASTICITY, SAND' U. FINE GRAINED, WELL BOUNDED WELL SORTED.
4							
				<u> </u>			

loring Lo	cation	Ŋ	Project:	EAD-	- Sout	41	SWMU No: SWMU -11, AREA 10
~			Start date and	_			Completion data and time;
• =	=== 1	SWMU-1)	Drilling Cont	ractor: S	AIC		Drilling Method: HAND AUGETZ, HAND 700LS
=		(AREA 10)	Logged by:	J. 7	دسطارط	5-1	750,000
Ξ			Total depth (f	eet):	O BCS		Diameter (inches): APPROX. 2'x2'
be Bernasid	e Drich	ES ON WEST	Sampler type	and size (di	ameter and le	ength): CORF BA	PREL WITH SLEEVES, S.S. SPOONS
1000	F AREA	MORTH FOR	Samples colle	cted from b	oring: S	8-11-0044	SB-11-004B
J. 1. G. 1	Head-	Max, PID	 				
Depth	space	Reading	Blows	Sample	Sample	Secondary Compounds	Lithologic Description (USCS name; color; consistency plasticity; density;
(feet)	Reading	(ppm)	(6 inches)	Турс	Recovery	and Percentages	moisture content; angularity, additional facts)
0-	- ö	_ 0	NA	AHOL	NA	50% SILT	BROWN 1048 5/3 SANDY SILT WITH SCREE GRALES
	\$B-11	- 0044				35% SAID	MOIST, FIRM, DENSE, MOD. PLASTICITY. SAND TIME TO MED. GRAMED BUBBOUNDED ROLY SOLTED
						1570 GPAVEZ	
1-	_						
				 			
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2-			 	 	 		
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3-			110	-	4.14	70%	DARK BROWN 19 88 4/2 SANDY CLAY WITH
J	<u> </u>	<u> </u>	NA	AHOL	NA	70% CUY	DARK BROWN 10 YR 4/2 SWDY CLAY WITH SMALL (TRACE) GRAVEL, MOIST, FIRM, DEVSE,
	35-11	1-004B	 -		 	25% SAND	MOD. PUSTICITY SAND FINE TO MED. GRAINE
			 	 		5% GRHEL	MOD. TO WELL ROWDED, MODERATE SORTIALG
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Boring Lo	cation	Й	Project:	EAD-	SOUTH		SWMU NO: SWMU-11, AREA 10
		N	Start date and				Completion data and time;
		 .	Drilling Contr	ractor: S	AIC.		Drilling Method: HAND 406FR, HAND TOOLS,
		Swan-11	Logged by:			701	CORE BARREL
i			Total depth (f				Diameter (inches): APPIZOX. 2' x 2'
· · ·							BARREL WITH SLEEVES, S.S. SPOONS
SPF 8	F AZPA	COM HOTETH	Samples colle	cted from b	oring: S	8-11-0054	58-11-0058
-1	Head-	Max. PID]		Lithologic Description
Depth	space	Reading	Blows	Sample	Sample	Secondary Compound	(USCS name; color; consistency plasticity; density;
(feet)	Reading	(ppm)	(6 inches)	Туре	Recovery	and Percentages	moisture content; angularity, additional facts)
0	<u>- 0</u>					60% SILT	BROWN 10412 5/3 SANDY SILT, MOIST, FIRM, DENSE, MOD PLASTICITY, SANDS FINE TO MID.
	SB	11-005A			\	40% SAND	GOLINES AND SORTING SUBROUNDED
					<u> </u>		
1							
			'			-	
2—	_						
							7
3-	-0	0				40% SILT	BROWN 107R S/3 SALLDY SILT WITH STATE CLAY AND GRAVEZ, MOIST, FIRM, NOO DEXISTY
		1-005B				30% SWD	HIGH PLASTICITY, SAND FIRE - MED GRANTED
						15% GRAVET	
}		,				15% CLAY	
4-							
				· · · · · · · · · · · · · · · · · · ·			-1
							
							7
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1							·

Boring, l	Location	}.	Project:	»ELE	ARMY ?	DEPOT-So	UTH AREA	SWMU No: 11 ARPA 10 SOIL SAMPLING
3	7809		Start date and	time: 10	124/94	-0840	>	Completion data and time; 10/24/94 09/0
3 0		1 KAKIN RD	Drilling Cont	ractor: <	AIC			Drilling Method: HAND TOOLS WITH POWER AUGER
RIC	58-11-006		Logged by:		MDLETO	<u>ا</u>		(LITTLE BEQUER AUGER USED)
\$ 6	(A,B)	100	Total depth (f		'BLS			Diameter (inches):
81	7810	<u>*</u>	Sampler type			ength): SL	OF HA	MMER WITH Z+x6" CORE BARREL
	1	18 S	Samples colle					(NOC, Metals Heart Breil PCB/SINC) COGB (VCC, M.
Depth (feet)	1 -	Max, PID Reading (ppm)	Blows (6 inches)	Sample Type	Sample Recovery	Secondary C and Perc	Compounds	Lithologic Description (USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)
0	1	0	NA	50	100%	50%	CLAY	CL BROWN 10 YR 4/4 SILTY CLAY WITH
		6-006A	1.7.			30% 5		SOME SAND, CLAY SOFT TO MEDIUM STIFFLESS FIRM TO DEUSE WITH
		45				20% 3		SUGAT TO MEDIUM & PLASTICITY. SAND, MOD. SORTING, SUBROWNDED TO
		·	 		 			WELL ROUDED, FINE TO MEDIUM
			 					GIZAWED.
	·		 	 	 			<u> </u>
			100	 	 			
2	0	0	N/A	50	100%	50%	cuy	
	SB-1	1-006B				30% 5	ILT	same as sample above
	09					20%	SAMO	
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			<u> </u>					
Sq	mple L	POITADE						eto, south of Rokin RD and et (East side),

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Boring Lo	1 280Z		Start date and	time: 10	124/94		Completion data and time; 10/24/94 0940
POWERS	SB-11-OUT		Drilling Contr Logged by:	7 DE	ANC NOLETO	y	Drilling Method: HAND TOOLS WITH POWER AVER (LITTLE BEQUER AVEER USED)
W	7803	Streck	Total depth (f		'BLS		Diameter (inches):
8	ST CONTRACTOR	2704	Sampler type	and size (di	ameter and le	ength): SLIDE HA	MMER WITH ZIX6" CORE BARREL "
U	黄素	1 2,07	Samples colle	cted from b	oring: SB-l	1-00MA (VOC, M	neTALS Agent Breakdown) 58-11-007B (Agent Breakdown)
Depth (feet)	Head- space Reading	Max, PID Reading (ppm)	Blows (6 inches)	Sample Type	Sample Recovery	Secondary Compounds and Percentages	Lithologic Description (USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)
0	- Ö	0	NA	50	100%	50% CLAY	CL BROWN 104R 4/4 SILTY CLAY WITH. SOME SAND, CLAY SOPT TO MEDIUM
	5B-11-	007A	,			30% SILT	STIFFUESS FIRM TO DEUSE WITH
1.	09	25				20% SAND	SHEAT TO MEDIUM & PLASTICITY.
							SAND, MOD. SORTING, SUBROWNDED TO
1-							WELL RESURED, FAIT TO MEDIUM 6124NED.
2-	- 0	0	NA	50	100%	50% cm	
		·				30% SILT	same as sample above
		. <u></u>				20% SAVD	
3	- 5B-11	-007B					
		130	·				
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Sample Location: 5B-11-007 (A,B) is located on the North of Johns Street, South-Southeast of bunker 2802 and North-Northeast of Bunker 2803.

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Boring Lo	cation	2503	Project: 'To	DOELE	ARMY T	DEPOT- SOUTH AREA	SWMU No: 11 AREA 10 SOIL SAMPLING
با لسب	JONAS	TREET	Start date and	time: 10	124/94	- 0953	Completion data and time; 10/24/94 1008
25	7		Drilling Contr		AIC		Drilling Method: HAND TOOLS WITH POWER AUGER
E 2	36-11-008	2504	Logged by:	J. PE	MOLETO	V	(LITTLE BEQUER AUGER USED)
E .			Total depth (fo		'BLS		Diameter (inches):
	2004		Sampler type	and size (di	ameter and le	ength): SLIDE HA	MMER WITH ZAX6" CORE BARREL
	ž		Samples collec	cted from b	oring: SB-1	1-008A (Applicate) (NC	MMER WITH 24x6" CORE BARREL C, METALS, NGENT BREAKDOWN, SB-11-0088 (NOC, METALS) PCB 15x6C Agent Breakdown
5	Head-	Max, PID		0			Lithologic Description
Depth (feet)	space Reading	Reading (ppm)	Blows (6 inches)	Sample Type	Sample Recovery	Secondary Compounds and Percentages	(USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)
0-	-0	0	NIA	50	100%	50% curr	CL BROWN 104R 4/4 SILTY CLAY WITH
	SB-11-0					30% SILT	SOME SAND, CLAY SOFT TO MEDIUM STIFFUESS FIRM TO DEVSE WITH
	(Pypl					20% SAUD	SHEAT TO MEDIUM & PLASTICITY.
		158					SAND, MOD. SORTING, SUBROUNDED TO
1	_						WELL ROUNDED, FINE TO MEDIUM GIZANED,
							GIOTAGEO;
							
2—	- 0		NA	So	100%	50% CUY	
	58-11-	008B				30% SILT	SAME AS SAMPLE ABOUT
	లో	58	· · · · · · · · · · · · · · · · · · ·			20% SAVO	
					<u>-</u>		
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SAMPLE LOCATION: SB-11.008 (A,B) IS located South Einst OF BUNKER 2603, SOUTHWEST OF BUNKER 2604, IT IS ALSO SOUTH OF JOINAS STREET AND BETWEEN NORMAN AND NICHOLS STREETS,

Boring Lo	cations) FE	NEED LINE	Project: 'To	DOELE	ARMY T	DEPOT-SOUTH AREA	SWMU No: 11 AREA 10 SOIL SAMPLING		
~ × ~	× ×		Start date and	time: 10	124/94	- 1018	Completion data and time; 10/24/94 1035		
Ley	SPIL-OC		Drilling Control Logged by: Total depth (f	ractor: <	AIC		Drilling Method: HAND TOOLS WITH POWER AUGER		
	BO (A,1	3/2301	Logged by:	J. PE	MOLETO	٧	(LITTLE BEQUET ANGER USED)		
	2 × 240	1111	Total depth (f	cet): Z	'BLS		Diameter (inches):		
		2362	Sampler type	and size (di	iameter and l	ength): SLIDE HA	MMER WITH ZAXG" CORE BARREL		
	12		Samples colle	cted from b	oring:98-1	1-009A (VOC, MERM	US, AGENT BREAK DOWN) SB-11-009B (VOC, METALS, AGENT BELOW PLB 15VOL		
Depth	Head- space	Max, PID Reading	Blows	Sample	Sample	Secondary Compounds	Lithologic Description (USCS name; color; consistency plasticity; density;		
(feet)	Reading	(bbw)	(6 inches)	Туре	Recovery	and Percentages	moisture content; angularity, additional facts)		
0-	- ô	0	NA	50	100%	50% WAY	CL BROWN 104R 4/4 SILTY CLAY WITH SOME SAND, CLAY SOPT TO MEDIUM		
	58-11-	009 A				30% SILT	STIFFUESS FIRM TO DEUSE WITH		
	102	3		[20% SAUD	SLIGHT TO MEDIUM & PLASTICITY. SAND, MOD. SORTING, SUBROUNDED TO		
<u> </u>	<u> </u>		 -	 	ļ		WELL ROUSDED, FAIL TO MEDICAL		
1	<u> </u>		ļ	 -			GRAWED.		
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			ļ						
2	- 0	0	NA	50	100%	50% CUY			
1	SB-11-0	09 B	<u> </u>			30% SILT	SAME AS SAMPLE ABOUT		
	10	25				zo% savo			
				!					
3			ļ <u></u>	<u> </u>					
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SAMPLE LOCATION: SOIT BOTTING SB-11-009 (A,B) IS located South of LOVLESS Street, Adjacent and RAST of Moore street, and North of Bunker 2401 between MAY AND Moore streets

Boring Lo	ocation	·~ 3	Project:	DOFLE	ARMY I	DEPOT-S	SOUTH AREA	SWMU No: 11 ARPA 10 SOIL SAMPLING
أح.	M 2407	赤玄	Start date and					Completion data and time; 10/24/94 11:09
Mesoca	6	Et.	Drilling Conti		AIC			Drilling Method: HAND TOOLS WITH POWER AUGER
	58-11-010 (4,8)	2308	Logged by:			~/		(LITTLE BEQUER AUGER USED)
Ethreet	(~,~)		Total depth (f		BLS			Diameter (inches):
8	2408		Sampler type			ength): S	LIDE HA	MMER WITH ZAXG" CORE KARREL
)		2309	Samples colle	cted from b	oring:58-11-	010A (10C, METHL PCB	MMER WITH ZIX6" CORE BARREL S. NORNT BREAKDOWN) SA-11-0108 (VOC, METALS, ALENT BREAKTOWN
	Head-	Max, PID				•		Lithologic Description
Depth	space	Reading	Blows	Sample	Sample		Compounds creentages	(USCS name; color; consistency plasticity; density;
(feet)	Reading		(6 inches)	Туре	Recovery	· — —		moisture content; angularity, additional facts) CL Brown 104R 4/4 SILTY CLAY WITH
0-			NA	50	100%		clay	SOME SAND, CLAY SOPT TO MEDIUM
		010 A				80%		STIFFLESS FIRM TO DEUSE WITH
	10	58			· ·	20%	SAND	SUGHT TO MEDIUM & PLASTICITY. SAND, MOD. SORTING, SUBROWNDED TO
	ļ							WELL ROUSDED, FASE TO MEDIUM
1-	-					 		GIZANED,
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		······································		i				
	 		 ,			0/		
2	- 0		N/A	50	100%	50%		
		1-010B				30%		SAME AS SAMPLE ABOUT
	J49	059				20%	SAND	
	<u> </u>			ļ. 	<u> </u>	<u> </u>		
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50	ADLE L	OCATION	50il	borna	SB-11	-010 (AB) (S	located due south of Buniker
	1500		2407	Nor	th OF	Bunk	ER 2408	3, WEST OF BUNKER 2308 And E
			EAST	- (ndin	cent)	DF MOOR	E Stree	5, WEST OF BUNKER 2308 AND E
				- 0				

Project: "TOOELE ARMY DEPOT-SOUTH ARM SWMU No: Boring Location AREA 10 SOIL SAMPLING Completion data and time; 10/24/94 Start date and time: 10/24/94 1135 Drilling Contractor: Drilling Method: HAND TOOLS WITH POWER AUGER Logged by: J. PENDLETON (LITTLE BEQUER AUGER USED 58-11-011 Diameter (inches): Total depth (feet): 2' BLS (A18) Sampler type and size (diameter and length): SLIDE HAMMER WITH ZAX6" CORE BARREL HEART STREET (VOC, METHLS, AGENT BREAKDOWN,)SB-011-0118 (VOC, METHLS, Samples collected from boring: 984011 A PCB/SVOC Max. PID Lithologic Description Head-Sample Sample Secondary Compounds (USCS name; color; consistency plasticity; density; Depth space Reading Blows (feet) (6 inches) and Percentages moisture content; angularity, additional facts). Reading (ppm) Type Recovery CL BROWN 10 YR 4/4 SILTY CLAY WITH 100% 0-l- Ö 50% CLAY 50 SOME SAND, CLAY SOPT TO MEDIUM 5B-11-01/A 30% SILT STIFFUESS FIRM TO DEVSE WITH SLIGHT TO MEDIUM & PLASTICITY. 20% SAND (Puplicate) SAND, MOD. SORTALO, SUBROWNDED TO 1140 WELL ROUDED, FARE TO MEDIUM

2--0 0 N/A 50 100% 50% CUT

513-11-011B

1142

30% SALT

20% SAMD

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GRANED.

SAMPLE LOCATION: BOILD SOIL BOING SB-11-011 (A,B) IS LOCATED At the Corner OF HEART of Marsh Street, Adjacent to the east side of Marsh Street and the North side of HEART street, And due south of Bunker Zer

Boring Lo	cation 1.1		Project:	OFLE	Dams 7	DEPOT- SOUTH AREA	SWMU No: 11 AREA 10 SOIL SAMPLING
1 2	205					- 1210	Completion data and time; 10/24/94 1228
	Umus 2	7100	Drilling Contr		AIC		Drilling Method: HAND TOOLS WITH POWER AVER
	OI	STREET	Logged by:	والمستبد المتحديث كانت		√	(LITTLE BEQUER AVEER USED)
3(2)	106 T E	•	Total depth (fo		BLS		Diameter (inches):58-11-012A (VOC, METALS, AGENT SB-11-012A) REFARGOWN, SVOC/PCB) (VOC, METALS)
E 51	-11-01ZA U	2107	Sampler type			ength): SLIDE HA	MINER WITH ZAX6" CORE BARREL BRECKOLL
_ [1]	E	2107	Samples collec	cted from b			SB-11-012B (SVOCKBCOURTED FROM A)
	Head-	Max, PID				•	Lithologic Description (VOC, Met-15, Agent
Depth	space	Reading	Blows	Sample	Sample	Secondary Compounds	(USCS name; color; consistency plasticity; density;
(feet)	Reading	(ppm)	(6 inches)	Туре	Recovery	and Percentages	moisture content; angularity, additional facts)
0-	-0	0	NA	50	100%	50% CL97	CL BROWN 104R 4/4 SILTY CLAY WITH SOME SAND, CLAY SOPT TO MEDIUM
	58-11-01	ZA				30% SILT	STIFFLESS FIRM TO DEUSE WITH
	1245					20% SAND	SHEAT TO MEDIUM & PLASTICITY. SALD, MOD. SORTING, SUBROUNDED TO
							1
1-		 	i				GILMED, FACTO MEDIUM
] 						
	ļ			·			
		···					
2—		0	NA	50	100%	50% CUT	
	58-11-	OLSB		<u> </u>		30% SILT	same as sample about
·	1518	 				20% SAVD	
	ļ		·				
3—							
							
4—							
٠.			Salh	-01-1-0	5841 -0	12 (A,B) 15 10	exted At the southwest coeff of
DAM	IBCE MO	CATION.	, coul o	P. d	LE W	IC COMBS AND	Kumur Streets. (OFF the ROMOWAY)
		the	INTERSE	LT 10.00	OF 11		
i							

٠.

.

Boring L	ocation	2102				DEPOT-SOUTH AREA	SWMU No: 11 AREA 10 SOIL SAMPLING					
	= 220Z	.l			124/94	- 1253	Completion data and time; 10/24/94_ 1310					
			Drilling Conti		SAIC		Drilling Method: HAND TOOLS WITH POWER AUGER					
ı Ç	(A,B)	2103	Logged by:	J. PE	MOLETO	<u>الله الله الله الله الله الله الله الله</u>	(LITTLE BEQUER ANGER USED)					
		E JONAS A	Total depth (f	eet): Z	'BLS		Diameter (inches):					
5	2203		Sampler type	impler type and size (diameter and length): SLIDE HAMMER WITH ZAX6" CORE BARREL								
		Σ	Samples colle				SB-11-013B (SUDC/PCB COLLETED FIZZA B)					
	Head-	Max, PID				•	Lithologic Description VOC, Metals Agent					
Depth	space Reading	Reading	Blows (6 inches)	Sample Type	Sample Recovery	Secondary Compounds and Percentages	(USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)					
(feet) ,	- O	(ppm)				<u>-</u>	CL BROWN 104R 4/4 SILTY CLAY WITH					
U		<u> </u>	NA	50	100%	50% CLAY	SOME SAND, CLAY SOPT TO MEDIUM					
ĺ	SB-11-0			<u> </u>	 -	30% SILT	STIFFLESS FIRM TO DELISE WITH					
	1258				ļ	20% SAND	SHEAT TO MEDIUM & PLASTICITY. SAND, MOD. SORTALD, SUBROWNDED TO					
	 						WELL ROUNDED, FATE TO MEDIUM					
1	<u> -</u>		ļ				GRANED.					
	ļ				ļ							
			<u> </u>									
<u> </u>	 		·		ļ <u>-</u> -	2/						
2	- 0		N/A	50	100%	50% cm						
	58-11-0					30% SILT	SAME AS SAMPLE ABOUT					
	1300	<u> </u>				20% SAVO						
	ļ				<u> </u>							
3	 				ļ							
			· · · · · · · · · · · · · · · · · · ·		<u> </u>							
	·											
4-	 											
1		·										
												

Sample Location: Soil boring 58-11-013(A,B) is located on the North side (Adjacent to)

JONAS STREET between Marsh and Mc Comes Street, IT IS SouthEast

OF Bunker 2202, WEST OF BUNKER 2103, and North-Northerst
OF Bunker 2203

			- "				
Boring Lo	Calien	***	Project: To	DELE	Army I		SWMU No: 11 ARPA 10 SOIL SAMPLING
	×		Start date and		124/94	- 1313	Completion data and time; 10/24/94 1330
X	Q _Q		Drilling Conti		AIC		Drilling Method: HAND TOOLS WITH POWER AVER
7 58-11	1014 S		Logged by:	J. PE	MOLETO	V	(LITTLE BEQUER AUGER USED)
LOVEESS	8	a	Total depth (f	ect): Z	'BLS		Diameter (inches):
STREET	M	202	Sampler type			ength): SLIDE HA	MMER WITH ZAXG" CORE BARREL
·	MA	STY ST	Samples colle	cted from b	oring: <	R-11-014A	SB-11-014B/SVOL/PCB COLLECTED FROM A) MITTES,
	Head-	Max, PID					
Depth	Space	Reading	Blows	Sample	Sample	Secondary Compounds	Lithologic Description VOC Ascert From (USCS name; color; consistency plasticity; density;
(feet)	Reading	(ppm)	(6 inches)	Туре	Recovery	and Percentages	moisture content; angularity, additional facts)
0—	- Ö	0	NA	50	100%	50% clay	CL BROWN 104R 4/4 SILTY CLAY WITH
	56-11-0	14 A	7			30% SILT	SOME SAND, CLAY SOFT TO MEDIUM STIFFLESS FIRM TO DEUSE WITH
	1318					20% SAND	SUGAT TO MEDIUM & PLASTICITY.
i	1267					2075 5775	SAND, MOD. SORTAND, SUBROUNDED TO
1							WELL ROUDED, FATE TO MEDIUM
							GIZANED,
		100.					
	-	1320					
	5B-11-0	214B					
2	- 0		N/A	50	100%	50% cur	
		 				30% SILT	same as sample above
	· · · · · · · · · · · · · · · · · · ·					20% SAVD	
3—							
i							,
4-	_					<u> </u>	
					<u> </u>		
							
Sam	pre re	CATION	: Soil E	BORING	5B-11	-014 (A)B) 15	lOCATED ON the Southwest

Corner of Loviess Road And Sawyer road Adjacent to the Roadway,

Boring L	ocation I	a rees	Project:		^- · · ·	\	SWMU No: 11 ARRA 10 Sou Sampling		
Joining L			Start date and	time: 'A	HRMY 1	DC 01 200 111 1100-1			
	58-11-015	TOTAL TOTAL			124/74				
	(A/B)	1615	Drilling Conti		SAIC		Drilling Method: HAND TOOLS WITH POWER AUGER		
	ن	1616	Logged by:	J. PE		<u>√</u>	(LITTLE BEQUER? AUGER USED)		
O'AO.	Total depth (feet): Z'BLS Samples type and size (diameter and length): S' S'						Diameter (inches):		
Joe S	စ္ပ		IDAIIIVILI ITUL	and succio	iameter and l	ength): SLIDE HA	MMER WITH Z"X6" CORE BARREL		
		1010	Samples colle	cted from b	oring: Si	3-11-015A. S	B-11-015 B/SWOC/RB COLURTED FROM A) VOL MITELS		
Depth (feet)	Head- space	Max, PID Reading (ppm)	Blows (6 inches)	Sample Type	Sample Recovery	Secondary Compounds and Percentages	Lithologic Description Agent from Both. (USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)		
0-	- ô	0	NA	50	100%	50% curr	CL BROWN 104R 4/4 SILTY CLAY WITH		
	58-11-0	15 A				30% SILT	SOME SAND, CLAY SOFT TO MEDIUM STIFFUESS FIRM TO DEUSE WITH		
	1354					20% SAUD	SUGAT TO MEDIUM & PLASTICITY.		
							SAND, MOD. SORTING, SUBROWNDED TO		
1-							WELL ROUNDED, FAIT TO MEDIUM		
	ļ						GIZANED,		
	ļ ————	1356	· · · · · ·						
	< B-11 - A	15B B		[- 	 		·		
2-		0	N/A	50	100%	50% CUT			
ľ						30% SILT	SAME AS SAMPLE ABOUT		
į		 				ZO% SAND	3446 113 34176 17336		
•		· · · · · · · · · · · · · · · · · · ·				2070 3445			
3									
									
•					 				
									
4_					<u> </u>				
			[<u> </u>					
	 								
1			 		 				
·	<u></u>								

SAMPLE LOCATION: Soil boring SB-11-015 (AB) is located on the steet side (Adjacent)

OF ROAD C, across the street and directly

between Dunker 1615 and 1616

)

Boring Lo	cation QAN	KIN KO	Project:	DOELE	ARMY T	DEPOT- SOUTH AREA	SWMU No: 11 ARPA 10 SOIL SAMPLING
nr	11	1731	Start date and	time: 10	124/94	- 1442	Completion data and time; 10/24/94 1458
	1 1	1732	Drilling Conti		SAIC		Drilling Method: HAND TOOLS WITH POWER AVER
111		19	Logged by:	J. PE	MOLETO	4	(LITTLE BEQUER AUGER USED)
(A)	2) ~~~ —	1177	Total depth (f	ect): 🗩	'RIC		Diameter (inches):
58-1 (A)	3:49	1739	Sampler type	and size (di	iameter and le	ength): SLIDE HA	MMER WITH ZAX6" CORE BARREL
ľ	= 4	1735	Samples colle	cted from b	oring: \$8-11	old for metacs, 3	existens) 58-11-0168 (VOC, METALS, Apent Parenteloiting)
	Head-	Max, PID				•	Lithologic Description
Depth (feet)	space Reading	Reading (ppm)	Blows (6 inches)	Sample Type	Sample Recovery	Secondary Compounds and Percentages	(USCS name; color; consistency plasticity; density;
0_	- Ö		W/A		100%		moisture content; angularity, additional facts). CL BROWN 104R 4/4 SILTY CLAY WITH
i		0	~/*	50	100/0	50% cupy	Some SAND, CLAY SOPT TO MEDIUM
,	SB-11-					90% SILT	STIFFLESS FIRM TO DELISE WITH SHIGHT TO MEDIUM & PLASTICITY.
•	144					20% SAND	SAND, MOD. SORTING, SUBROWNDED TO
1-							WELL ROUDED, FAIT TO MEDIUM
	·						GIZANED,
	50-11	-016B					
		48					
· 2-	- 0	0	N/A	50	100%	50% cm	
			<i>- 1</i>			30% SILT	SAME AS SAMPLE ABOUT
						20% SAVD	
3							
4—	_						
				,			
5Am	ibre Fo	MALION		•			

Soil boring SB-11-016 (A,B) 15 located on the west side and adjacent to ROAD DI IT IS LOCATED Directly across the street and inhetween Bunkers 1733 And 1734

ينسنوني							
Boring Lo	ocation	1311 -				20101	SWMU No: 11 ARPA 10 SOIL SAMPLING
RANK	MRD		Start date and	time: 10	124/94	- 1525	Completion data and time; 10/24/94 15:44
14	SB	-11-017	Drilling Contr	ractor: <	SAIC		Drilling Method: HAND TOOLS WITH POWER AUGER
	27	(AIR) (1)21	Logged by:	J. P€	MOLETO	V	(LITTLE BEQUER AUGER USED)
14	20 >	312	Total depth (f	ect): Z	'BLS		Diameter (inches):
S H	133	- 16.5	Sampler type			ength): SLIDE HA	MMER WITH Z"X6" CORE BARREL
14	134 JEN	KINS P	Samples colle	cted from b	ooring: Sī	3-11-017A. S	SB-11-017B/DUPLICATE SAMPLE COLLECTEN FROM
	Head-	Max, PID				•	Lithologic Description 174, SUCCIPCB
Depth (feet)	space Reading	Reading (ppm)	Blows (6 inches)	Sample Type	Sample Recovery	Secondary Compounds and Percentages	(USCS name; color; consistency plasticity; density; tout moisture content; angularity, additional facts).
		0	NA	50	100%	50% CLAY	CI BROWN IDYR 4/4 SUTY CLAY WITH
		14 017A				30% SILT	SOME SAND, CLAY SOPT TO MEDIUM STIFFLESS FIRM TO DEUSE WITH
. '		30				20% SAUD	SLIGHT TO MEDIUM & PLASTICITY.
							SAND, MOD. SORTING, SUBROWNDED TO
1-	_						WELL ROUNDED, FAIT TO MEDIUM GRANED.
•		`\					
			•				
2-	- 0	0	N/A	50	100%	50% CUY	
1	5B-11-	017B				30% SILT	same as sample about
	153					zo% SAND	• \
3							
1							
I							
4							
			,				
					69.11	017 (AB) 15	PRATED ON the west side and

Sample Location: Soil boring SB-11-017 (A,B) 15 located on the west side and Adjacent to Jenkins street. It is directly across the Etroct and the west of BUNFER 1312 AND EAST OF BUNKER 1432,

Boring Lo	Fation 1420	11	Project:	DOELE	ARMY I	DEPOT- SOUTH AREA	SWMU No: 11 ARPA 10 SOIL SAMPLING
		11	Start date and	time: 10	124/94	1555	Completion data and time; 10/24/94 1612-
	MASST		Drilling Conti	actor: <	AIC		Drilling Method: HAND TOOLS WITH POWER AVER
70	0 18-11-018 (A,6)	1308	Logged by:	2′ 6€	HOLETO	J	(LITTLE BEQUER AUGER USED)
⊅ %	1 2 2 2 X	1308	Total depth (f		'BLS		Diameter (inches):
Š	100 2		Sampler type			ingth): SLIDE HA	MINER WITH ZAX6" CORE BARREL
	2000 S X Y		Samples colle	cted from b	oring:SB-11	-6/8 A (VOC, METER) TE	Breakdown SO-11-018B (MOC, METHICS, ACENT)
	Head-	Max, PID				•	Lithologic Description
Depth	space	Reading	Blows	Sample	Sample	Secondary Compounds	(USCS name; color; consistency plasticity; density;
(feet) ,	Reading	(bbw)	(6 inches)	Туре	Recovery	and Percentages	moisture content; angularity, additional facts) CL BROWN 104R 4/4 SILTY CLAY WITH
0-	- Ö	<u> </u>	N/A	50	100%	50% CLAY	SOME SAND, CLAY SOPT TO MEDIUM
	58-11-1		ļi	· ·		30% SILT	STIFFLESS FIRM TO DEUSE WITH
	1600	<u> </u>		·	- 	20% SAUD	SHIGHT TO MEDIUM & PLASTICITY. SAND, MOD. SORTING, SUBROWNDED TO
							1
1-							WELL ROUNDED, FATE TO MEDIUM GRANED,
						<u> </u>	
	 		•	 			
2-	- 0	0	N/A	50	100%	50% CUY	
	SB-11-0	218B	, , , , , ,			30% SILT	SAME AS SAMPLE ABOUT
	160					ZO% SAND	
				,			
3—	_						
							· .
4-	_						
		,					
		 					
							
	<u></u>		- 11			1 6.9 (5.0)	
Sam	ibre foc	ATION	1 2011	BORING	SB-	IL OIB (A/B)	is located on the southeast.
		ORNE	R OF	MAY	Street	AOU'D ROAD	A. Bunker 1420 is due North

Sample Location: Soil boring SB-11-018 (A,B) is located on the southerst corner of may street and ROAD A, Bunker 1420 is due North and across the street, Bunker 1308 is across due East and (mayst) across Jenkins street.

Boring Lo	cation		Project:	DEUE	AZMY	DEPOT-SOUTH	SWMU No: SWMU II, AREA 10
			Start date and				Completion data and time; 10/24/94
			Drilling Contr				Drilling Method: HAND TOOLS WITH POWER
			Logged by:		PENDL		· 406F12
		•	Total depth (f		.4'BL		Diameter (inches): \sqrt{A}
							MINER WITH 2" × 6" CORE BARREL
			Samples colle		oring: S	B-11-019A	SB-11-019B
Depth (feet)	Head- space Reading	Max. PID Reading (ppm)	Blows (6 inches)	Sample Type	Sample Recovery	Secondary Compounds and Percentages	Lithologic Description (USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)
0-	- O	(Pp)	NA	50	100%	50% cur	CL BROWN 10 YR 4/4 SULTY CLAY WITH
	SB-11-	094	· · · · · · · · · · · · · · · · · · ·		7,007	30% SLT	MODERATE STIFFACES, MOD. BENEFIT.
	30 11					20% SAND	SAND FINE- MED. CHAINED, SUBROUNDE
l	-		,				
			<u> </u>		<u> </u>		
			<u> </u>	 			
2—		- 0#B	NA	50	100%	40% CLAY 35% SLT	CL BROWN 10 YR 4/3 SILTY CLAY, WITH SOME SAND (SAME AS ABOVE)
	3,5	-70		12.		25/0 SAND	
3—	_			int Pri			
		·	<u> </u>				:
			ļ		<u> </u>		
			<u> </u>	DA B.	<u> </u>		
4	-						·
			1				

Boring Lo	cation		Project:	OELE /	ARMY I	DEPOT- SOUTH	SWMU No: 11, AREA 10
l	•		Start date and		0/24/9		Completion data and time; 10/24/24
			Drilling Cont	rattor: <	SAIC		Drilling Method: POWER AUGETZ W. HAMID
			Logged by:	7.	Rudle		· 700LS
		•	Total depth (f	.	2,3'	BLS	Diameter (inches): WA
			Sampler type				MINETE W. 2" × 6" CORE BARREL
							5B-11-020B
	Head-	Max. PID				•	Lithologic Description
Depth	space	Reading		Sample	Sample Recovery	Secondary Compounds and Percentages	(USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)
(feet) 0	Reading	(ppm)		Туре	100%		7-1100000000000000000000000000000000000
	- 0		I WA	<u> </u>	100%	50% CUT	WITH SOME STAID CLAY, MOIST,
	SB-11-	0204	 			40% SILT	EIRM SAND MED TO CHESE
·			 			10% S41D	WITH SOME STAID. CLAY MOIST, MOD. DENSITY, MOD PLASTICITY. FIRM, SAND MED. TO CORESE GRAINED SUBPOUNDED, POORLY SORRED.
1-			,				
			,	1			
							, , , , , , , , , , , , , , , , , , ,
2-	- 0	0	NIA	SO	100%	50% CLAY	CL BROWN 104R 4/3 SILTY CLAY N WITH SOME SAND (SAME AS ABOVE)
	SB-11-	OZOB				25% SIT	WHA 3371 2000
						15% SAND	
						10 % GRAVER	
3—							
	 				ļ	; 	*
4						·	
			<u> </u>	<u> </u>			
				ļ		· · · · · · · · · · · · · · · · · · ·	
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			1	77 p 10 s			
				#1 24			
L				14			
			1				
			(3) 157 1	· P 1			

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SWMU 11 MONITORING WELL S-3



Well Development Form

(Field Sheet)

Project Name	and Number: 7	DOELE S AREA 10	01-0827-03-6523-6	220
		-3 AREA 10		
Davelonment	Crew: MARK	M C G ち (R E Driller (if applicable	DAN PLOTIS	
Water Levels/	Time: Initial: 2	5. 825 Pumping: 3 GPM		
Total Well De	pth: Initial: $\frac{\mathcal{A}}{\mathcal{A}}$	5. 34 Final:		
Date and Tim		5- 94 9, 00 Completed:		
Development:	Method(s):	PUND FOS PUMP 20	<u>/</u>	
	eswil=4269	f Water Removed: (ניַ זַּ סטּ, תּבשונבּ לבני פסיק, תּבשונבּ לְבני בו, תבשונבל 27 פבע)RUMS) gals 910, RSW 112426911	
Date Time	Discharge Rate*	Field Measurements	Remarks	
Date IIII	2,00,		Unaludina	- 1

Date Time	Discharge Rate*		Field Mea	surements		Remarks		
and Pump Secting	and Measurement Method	Temp (°C)	Specific Conductivity (umhos/cm)	pH (Standard Units)	Turbidity	(Including Sand Production)		
10-5-91, 1/2664 9:30	1. 1/2 GPM	11.0	80×100	6.83	7200	HZO IS WHIT t CLOUMY, NO SILT	E	
9:45	3 GPM	11.2	75×10	07.11	9.46	NOTICED THE HO 15		
10:00	3G-PM	11,2	77×100	7.20	3.83	DAN WAS		<i>UG</i> .
10:15	3 GPM	11.2	77×100	, -	2.52 of	DAN WAS FAMILIAR W/P THIC WELL, THAT IS WHY) - ()	
10:30	3 G P M	11.3	76 x100	7.21	0.91	WE HAD A HIGHER PUMPIN RATE.	G	
								;

*parons per minute or baile capacity

White: File

Pink: Field Manager

Yellow: Supervisory Geologist

Goldenrod: Field Book



Sampling Form (Field Sheet)

riojeci ivame and	Number: <u>TEAO - S</u>
	JOE SKIBINSKI + MARK MCGUIRE
	ımber: <u>5-3</u> 5
=	: AREA 10 SWMU !
Sample Type:	
	mple Collected: 10/6/94 1233
	•
weather Conditio	ns: <u>Cloudy</u> , 95°F
	tion (if applicable):
	2" GRUNDFOS SUBMERSIBLE PUMP Water Purged:
Quantity of Disposition	of Purge Water: CLEAR
•	
Date and 1	ime of Purging: Start: 10/5/99 925 End: 10/5/99 1040
Comments	FIELD MEASUREMENTS TAKEN DURING PURGING.
@ 10:30	36PM pH: 7.21 TEMP: 11.3°C CONO: 76X100 TURBIDITY: 0.91 NTU.
Groundwater:	
Date and T	
י מוכ מווט ו	ime Collected: 10/6/37 1/33
Sampling (ime Collected: 10/6[94 1233 Depth: 23.6
Sampling (Water Leve	Depth: 23.6' BE: WITH WATEL SURFACE LEVEL: 25.83' Toc
Sampling (Water Leve Sampling (Depth: 23.6 / Depth: 23.6 / Depth: 25.63 / Toc / Depth: 25.63 / Depth: 2
Sampling (Water Leve Sampling I Field Meas	Depth: 23.6 ' Depth:
Sampling (Water Leve Sampling I Field Meas Date and 1	Depth: 23.6 ' Depth:
Sampling (Water Leve Sampling I Field Meas Date and 1	Depth: 23.6 ' Depth:
Sampling (Water Leve Sampling I Field Meas Date and 1	Depth: 23.6 ' Depth:
Sampling (Water Leve Sampling I Field Meas Date and 1	Depth: 23.6 ' Depth:
Sampling (Water Level Sampling I Field Mease Date and I Comments	Depth: 23.6 INITIAL WATER SUNFACE LEVEL! 25.83 Toc. Method/Equipment: Cond: Alkalinity: urements: pH Temp: Cond: Alkalinity: ime Filtered (if applicable): WA FIELD MEASUREMENTS TAKEN DURING PURGING.
Sampling (Water Level Sampling I Field Meas Date and 1 Comments	Depth: 23.6 Depth: 23.6 Depth: WITHAL WATEL SUNFACE LEVEL! 25.83 Toc Method/Equipment: Cond: Alkalinity: Urements: pH Temp: Cond: Alkalinity: Time Filtered (if applicable): WA E. FIELD MEASUREMENTS TAKEN DURING PURGING.
Sampling (Water Level Sampling I Field Meas Date and I Comments Surface Water: Date and I Collection	Depth: 23.6 Depth:
Sampling (Water Level Sampling I Field Meast Date and I Comments Surface Water: Date and I Collection Date and I	Depth: 23.6 Depth:
Sampling (Water Level Sampling I Field Meast Date and I Comments Surface Water: Date and I Collection Date and I Field Meast	Depth: 23.6 ' Delth: INITIAL WATER SUNFACE LEVEL! 25.83 Toc Method/Equipment: Unrements: pH Temp: Cond: Alkalinity: Unrements: pH Temp: Cond: Alkalinity: Unrements: pH Temp: WRING PURGING. Time Collected: Method: Unrements: pH Temp: Cond: Turbidity:
Sampling (Water Level Sampling I Field Meast Date and I Comments Surface Water: Date and I Collection Date and I Field Meast	Depth: 23.6 Depth:
Sampling (Water Level Sampling I Field Meast Date and I Comments Surface Water: Date and I Collection Date and I Field Meast	Depth: 23.6 ' Delth: INITIAL WATER SUNFACE LEVEL! 25.83 Toc Method/Equipment: Unrements: pH Temp: Cond: Alkalinity: Unrements: pH Temp: Cond: Alkalinity: Unrements: pH Temp: WRING PURGING. Time Collected: Method: Unrements: pH Temp: Cond: Turbidity:
Sampling I Water Leve Sampling I Field Meas Date and I Comments Surface Water: Date and I Collection Date and I Field Meas Comments	Depth: 23.6 Depth:
Sampling (Water Level Sampling I Field Meast Date and I Comments Surface Water: Date and I Collection Date and I Field Meast Comments Comments Soils/Sediment	Depth: 23.6 Depth:
Sampling (Water Level Sampling I Field Meas Date and I Comments Surface Water: Date and I Collection Date and I Field Meas Comments Soils/Sediment	Depth: 23.6 Depth:
Sampling (Water Level Sampling I Field Meas Date and T Comments Surface Water: Date and T Field Meas Comments Comments Soils/Sediment Sampling	Depth: 23.6 Det:
Sampling I Water Leve Sampling I Field Meas Date and I Comments Surface Water: Date and I Collection Date and I Field Meas Comments Soils/Sediment Sampling Sampling	Depth: 23.6 Delt: INITIAL WAFEL SURFACE LEVEL! 15.83 Toc Method/Equipment: Urrements: pH Temp: Cond: Alkalinity: Urrements: pH Temp: Cond: Alkalinity: Urrements: pH Temp: Cond: Turbidity: Urrements: pH Temp: Cond: Turbidity: Urrements: pH Temp: Cond: Turbidity: Urrements: pH Temp: Cond: Turbidity:



Sampling Form

(Field Sheet)

Proje	ect Name and Number: Took LE South RFI 01-0827-03-6523-025
	pling Crew: J. Carter, J SKIBINSKI, J PENDLEton
	pling Point Number: WELL S-3 South WEST OF AREA 10
	pling Location: Swmu-10 x &
	ple Type: 🛛 GW 🔲 SW 🔲 Soil 🔲 SED 🔲 Other:
	and Time Sample Collected: 1/30/95 //:45
	ther Conditions: 35° F, CLOUDY, Slight breeze
Weat	the conditions. 33 7, Cool of, Sign of the Cool
Duro	ging Information (if applicable):
ruig	Method: 2" Submersible pump (Grun JFos) Quantity of Water Purged: 120 gallon 5 Disposition of Purge Water: Clean
	Quantity of Water Purged: 120 9010 NS
	Disposition of Purge Water: Clear
	Date and Time of Purging: Start: 1/3c /95 /030 End: 1/3c /95 /0:52 Comments:
	Continuents.
Grou	undwater: ,
	Date and Time Collected: 1/30/95 //:45
	Sampling Depth: 23.5' BTOC
2543	Water Level: 25,43 BTOC
	Sampling Method/Equipment: PVC Bailer (dedicated) Field Measurements: pH 6.91 Temp: 100C Cond: 65 MAIKalinity:
	Field Measurements: pH 6.41 Temp: O C Cond: 6 MAlkalinity:
	Date and Time Filtered (if applicable):
	Comments:
Surf	ace Water:
	Date and Time Collected:
	Collection Method:
	Date and Time Filtered (if applicable):
	Field Measurements: pHTemp:Cond:Turbidity:
	Comments:
Soil	s/Sediment Sampling:
	Date and Time Collected:
	Sampling Depth:
	Comments:
	Sampling Method:Comments:



Well Purging/Sampling Form

(Field Sheet)

Page 1 of 1

Project Name and Number	er: Deseret Chemical Depot	Deseret Chemical Depot 01-0827-03-6523				
Well Number and Locatio	n: S-3 SWMU 11					
Sampling Crew:	Knut Torgerson, Patrick	Sorderberg				
Pump Depth/Total Depth	(btoc): 40'/45.05'					
Purging Method: Subme	rsible Pump EPA Low Flow I	Method				
Quantity of Water Remov	ed: 11 gal	Screen Length:				
Sample Number: S-3 (S	AIC01, SAIC01D, SAIC01N,	SAIC01ND)				
Date/Time 11/17/	98 1250 - 1400					
Trip Blank Number:	S-3 (SAICTB02)	Sampled by:				

FIELD MEASUREMENTS

Date/Time	Rate (GPM)	Volume (gals.)	Water Level (BTOC)	Temp (°C)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
11/17/98 1258	.25	3	23.33'	13.7	7.72	15.4	20	3.37	250.1
11/17/98 1306	.25	5	23.33'	13.7	7.52	15.2	0	3.42	228.8
11/17/98 1314	.25	7	23.33'	14.0	7.55	14.9	0	3.41	212.0
11/17/98 1322	.25	9	23.33'	13.9	7.48	14.4	0	3.42	207.0
11/17/98 1330	.25	11	23.33'	13.8	7.50	14.3	0	3.43	207.8

GPM = Gallons per Minute	LPM = Liters per Minute	BTOC = Below Top of Casing	
Comments:			
Form Completed by: Ty	Grivat	. <u></u>	

One well volume = $(H \times W) + \{0.33[(SH \times B) - (SH \times W)]\}$ Where: H = water column, W = well multiplier (2" = 0.16, 4" = 0.65), SH = screen height, B = borehole diameter multiplier (for 6" = 1.47, 8" = 2.61, 10" = 4.08, 12" = 5.89)

S-45-90



Well Development Form

(Field Sheet)

Project Name and I	Number: TEAD -So	NTH 01-0827	-03-6523-666
Well Number and L	ocation: <u>5-45-90</u>	SW CORNER	AIZEA 10
Development Crew	PENDLETON/SKIBINS	பூ Driller (if applicable): 🛕	N PLOTTS
Water Levels/Time:	Initial: 19.1	Pumping: ZZ.16	Final:
Total Well Depth:	Initial:		
Date and Time:	Begin: 9/22/94 1716 Method(s): 2" SUDMER	Completed:	
Development:	Method(s): 2" SUBMER	SIBLE GRUNDFOS	5
	Total Quantity of Water Remove	d:	gals

			Field Meas	surements		
Date/Time and Pump Setting	Discharge Rate* and Measurement Method	Temp (°C)	Specific Conductivity (umhos/cm)	pH (Standard Units)	Turbidity	Remarks (Including Sand Production)
9/27/94	~ 1 1/2 60c/mm				-	~
טוצו	Л	123	62 x 100	6.84		TURBID
1252	11	11.9	68 × 100	7.20		VI CLEAR
1320	1 (11.9	687100	7.21	V	CLEAR
1343	t v	58 12++ 11.7	67 × 100	7,21		V. LLEAR
1354	11	11.8	65×100	7,23		V. CLEAIZ
1405	//	11,9	67×100	7,24	•	V. CCEAR,
Punp I	NTAKE SET	AT ~ 3	0.5 BG	5		



Sampling Form (Field Sheet)

Method: 2" GRWDFOS SUMMERSIRE PUMP Quantity of Water Purged: Disposition of Purge Water: CLEAR Date and Time of Purging: Start: 9/27/91 1216 End: 9/27/91 1405 Comments: FIELD MEASUREMENTS TAKEN DURING PURGING. A MOS 1.5 GPM pH: 7.24 TEMP: 11.9°C COMO: G2×100 TURBIDITY: CLEAR Mehos/cm Groundwater: Date and Time Collected: 9/28/94 IICG Sampling Depth: 16.3° Water Level: IDITIAL WATER LEVEL: 19.1° To C Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): I/A Comments: FIELD MEASUREMENTS TAKEN DURING PURGING. Surface Water: Date and Time Collected: Collected: Collection Method: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond: Turbidity: Comments: Soils/Sediment Sampling: Date and Time Collected: Sampling: Date and Time Collected: Sampling Depth: Sampling Method:	Project Name and Number:TEA0S
Sampling Point Number: \$\sigma - 45 - 90\$ Sampling Location: \$\sigma \text{L} / Sample Type: \$\sigma \text{GW} \text{ SW} \text{ Soil } \ SED \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Sampling Crew: JOE SKIBINSKI + JOHN PENOLETON
Sampling Location: SWML Sample Type: S GW SW Soil SED Other: Date and Time Sample Collected: 9/28/94	-
Sample Type: \[\Box \] GW \ SW \] Soil \ SED \ Other: \[\] Oute and Time Sample Collected: \[\frac{9}{28} \] 99 \ \ \ 1/06 \] Weather Conditions: \[\] Weather Conditions: \[\] Method: \[\frac{7}{6} \textit{RWDF05} \ SUBMERSIBLE \textit{PUMP} \] Quantity of Water Purged: \[\textit{Disposition of Purging: Start: \[\frac{9}{27} \] 91 \ \ 1216 \] Date and Time of Purging: Start: \[\frac{9}{27} \] 91 \ \ 1216 \] Date and Time of Purging: Start: \[\frac{9}{27} \] 91 \ \ 1216 \] Comments: \[\frac{1}{16} \textit{Disposition of Purging: Start: \[\frac{9}{27} \] 91 \ \ 1216 \] Date and Time of Purging: Start: \[\frac{9}{27} \] 91 \ \ 1216 \] Date and Time Collected: \[\frac{9}{28} \] 91 \\ \frac{1}{24} \] Date and Time Collected: \[\frac{9}{28} \] 91 \\ \frac{1}{24} \] Comments: \[\frac{1}{16} \textit{MEASUMEMENTS} \] Date and Time Filtered (if applicable): \[\frac{1}{24} \] Comments: \[\frac{1}{16} \textit{MEASUMEMENTS} \] Date and Time Collected: \[\frac{1}{28} \textit{MEASUMEMENTS} \] Date and Time Collected: \[\frac{1}{28} \textit{MEASUMEMENTS} \] Date and Time Filtered (if applicable): \[\frac{1}{24} \textit{Disposition} \] Date and Time Filtered (if applicable): \[\frac{1}{24} \textit{Disposition} \] Date and Time Filtered (if applicable): \[\frac{1}{24} \textit{Disposition} \] Date and Time Collected: \[\frac{1}{28} \textit{Disposition} \] Comments: \[\frac{1}{24} \textit{Disposition} \] Comments: \[\frac{1}{24} \textit{Disposition} \] Date and Time Collected: \[\frac{1}{24} \textit{Disposition} \] Date and Time Collected: \[\frac{1}{24} \textit{Disposition} \] Comments: \[\frac{1}{24} \textit{Disposition} \] Parallel 1216 Date and Time Collected: \[\frac{1}{24} \textit{Disposition} \] Comments: \[\frac{1}{24} \textit{Disposition} \] Date and Time Collected: \[\frac{1}{24} \textit{Disposition} \] Soils/Sediment Sampling Wethod: \[\frac{1}{24} \textit{Disposition} \] Date and Time Collected: \[\frac{1}{24} \textit{Disposition} \] Sampling Metho	· •
Date and Time Sample Collected: 9/28/94 1/06 Neather Conditions: Method: 2" GRUNDFOS SUBMERSIBLE PUMP Quantity of Water Purged: Disposition of Purge Water: CLEAR Date and Time of Purging: Start: 9/27/94 1/216 End: 9/27/94 1/405 Comments: FIELD MEASUREMENTS TAKEN DURING PURGUG. A RADES COM Groundwater: Date and Time Collected: 9/28/94 1/106 Sampling Depth: 16.3" Water Level: 1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/	• •
Neather Conditions: Purging Information (if applicable): Method: Z" GRUNDFOS SULLERSIBLE PULP Quantity of Water Purged: Disposition of Purge Water: CLEAR Date and Time of Purging: Start: 9/27/91 1216 End: 9/23/91 /405 Comments: FIELD MEASUREMENTS TAKEN DURING PURGUES. (A) HOS 1.5 GPM pH: 7.74 TEMP: II.9°C COMO: 62×100 TURBUILTY: CLEAR Groundwater: Date and Time Collected: 9 /28/94 IIO6 Sampling Depth: 16.7 Water Level: INITIAL WATER LEVEL - 19.1 TeC Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): N/A Comments: FIELD MEASUREMENTS TAKEN DURING PURGING. Surface Water: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond: Turbidity: Comments: Soils/Sediment Sampling: Date and Time Collected: Sampling Depth: Sampling Method: Sampling Depth: Sampling Method:	
Purging Information (if applicable): Method: 2" GRUNDFOS SUBMERSIRLE PUMP Quantity of Water Purged: Disposition of Purge Water: CLEAR Date and Time of Purging: Start: 9/27/94 1216 End: 9/27/94 1405 Comments: FIELD MERINGEMENTS TAKEN DURING PURCOUNT. @ HOS 1.5 GPM pH: 7.74 TEMP: II.9°C COMB: 62×100 TURBIDITY: CLEAR Groundwater: Date and Time Collected: 9/28/94 IIO6 Sampling Depth: Io.3' Water Level: INTIAL MATER LEVEL 19.1 ToC Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): INA Comments: FIELD MERINGEMENTS TAKEN DURING PURGING. Surface Water: Date and Time Collected: Collection Method: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond: Turbidity: Comments: Soils/Sediment Sampling: Date and Time Collected: Sampling Depth: Sampling Method:	Date and Time Sample Collected: 9/28/99 1106
Method: 2" GRWDFOS SUMMERSIRE PUMP Quantity of Water Purged: Disposition of Purge Water: CLEAR Date and Time of Purging: Start: 9/27/91 1216 End: 9/27/91 1405 Comments: FIELD MEASUREMENTS TAKEN DURING PURGING. A MOS 1.5 GPM pH: 7.24 TEMP: 11.9°C COMO: G2×100 TURBIDITY: CLEAR Mehos/cm Groundwater: Date and Time Collected: 9/28/94 IICG Sampling Depth: 16.3° Water Level: IDITIAL WATER LEVEL: 19.1° To C Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): I/A Comments: FIELD MEASUREMENTS TAKEN DURING PURGING. Surface Water: Date and Time Collected: Collected: Collection Method: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond: Turbidity: Comments: Soils/Sediment Sampling: Date and Time Collected: Sampling: Date and Time Collected: Sampling Depth: Sampling Method:	Weather Conditions:
Quantity of Water Purged: Disposition of Purge Water:CLEAR Date and Time of Purging: Start:9/27/941216	Purging Information (if applicable):
Disposition of Purge Water: CLEAR Date and Time of Purging: Start: 9/27/94 1216 End: 9/27/94 1405 Comments: FIELD MEASUREMENTS TAKEN DURING PURGUG. (A) 1905 1.5 GPM pH: 7.24 TEMP: 11.9°C COMB: G2×100 TURBIDITY: CLEAR MARS / cm Groundwater: Date and Time Collected: 9 / 28/94 1106 Sampling Depth: 16.7' Water Level: LUTIAL MATER LEVEL 19.1 ToC Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): JA Comments: FIELD MEASUREMENTS TAKEN DURING PURGING. Surface Water: Date and Time Collected: Collection Method: Temp: Cond: Turbidity: Comments: PH Temp: Cond: Turbidity: Comments: PH Temp: Cond: Turbidity: Comments: PH Temp: Cond: Turbidity: Comments: Soils/Sediment Sampling: Date and Time Collected: Sampling: Date and Time Collected: Sampling Method: Sampling Method: Sampling Method:	Method: 2" GRUNDFOS SURMERSIBLE PUMP
Date and Time of Purging: Start: 9/27/91 1216 End: 9/27/91 1905 Comments: FIELD MEASURE MENTS TAKEN DURING PURGUES. (A) MOS 1.5 GPM pH: 7.24 TEMP: 11.9°C COND. G2×100 TURBIDITY: CLEAR MARS / cm Groundwater: Date and Time Collected: 9/28/99 1106 Sampling Depth: 16.7' Water Level: 1017/AL WATER LEVEL - 19.1 TeC Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): 1/A Comments: FIELD MEASUREMENTS TAKEN DURING PURGING. Surface Water: Date and Time Collected: Collection Method: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond: Turbidity: Comments: Soils/Sediment Sampling: Date and Time Collected: Sampling: Date and Time Collected: Sampling Depth: Sampling Method:	Quantity of Water Purged:
Comments: FIELD MEASURE MENTS TAKEN DURING PURGING. (A) 1.5 GPM pH: 7.24 TEMP: II. 9°C COMD: G2X100 TURBIDITY: CLEAR K AAss / cm Date and Time Collected: 9 / 28 / 94 IIOG	Disposition of Purge Water: <u>CLEAR</u>
Comments: FIELD MEASURE MENTS TAKEN DURING PURGING. (A) 1.5 GPM pH: 7.24 TEMP: II. 9°C COMD: G2X100 TURBIDITY: CLEAR K AAss / cm Date and Time Collected: 9 / 28 / 94 IIOG	Dec. 17 (Decision Start a land 1217 End: 9/12/04 1405
Groundwater: Date and Time Collected: 9/28/94 1106 Sampling Depth: 16.7' Water Level: 1017/AL WATER LEVEL 19.1' Toc Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): NA Comments: FIELD MEASUREMENTS TAKEN DURING PURGING. Surface Water: Date and Time Collected: Collection Method: Date and Time Filtered (if applicable): Cond: Turbidity: Comments: PH Temp: Cond: Turbidity: Comments: Soils/Sediment Sampling: Date and Time Collected: Sampling Depth: Sampling Method: Sa	
Date and Time Collected:	A MOS ISBUM DH: 7.29 TEMP: 11.9°C COND: G2×100 TURRIDITY: CLEA
Date and Time Collected: 9/28/94 1106 Sampling Depth: 16.7 Water Level: 1011AL WATER LEVEL - 19.1 To C Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): NA Comments: FIELD MEASUREMENTS TAKEN DURING PURSING. Surface Water: Date and Time Collected: Collection Method: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond: Turbidity: Comments: Soils/Sediment Sampling: Date and Time Collected: Sampling Depth: Sampling Method: Sampling Method: Sampling Method: Sampling Method: Sampling Method: Sampling Method: Sampling Method:	M Mhos/cm
Sampling Depth:	Groundwater:
Water Level:	
Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable):/A Comments: FIELD MEASUREMENTS TAKEN DURING PURSING; Surface Water: Date and Time Collected: Collection Method: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond: Turbidity: Comments: Soils/Sediment Sampling: Date and Time Collected: Sampling Depth: Sampling Method:	Sampling Depth:
Date and Time Filtered (if applicable): Comments: FIELD MEASUREMENTS TAKEN DURING PURSING. Surface Water: Date and Time Collected: Collection Method: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond: Turbidity: Comments: Soils/Sediment Sampling: Date and Time Collected: Sampling Depth: Sampling Method:	
Date and Time Filtered (if applicable): Comments: FIELD MEASUREMENTS TAKEN DURING PURSING. Surface Water: Date and Time Collected: Collection Method: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond: Turbidity: Comments: Soils/Sediment Sampling: Date and Time Collected: Sampling Depth: Sampling Method:	Sampling Method/Equipment: Cond: Alkalinity:
Comments: FIELD MEASUREMENTS TAKEN DURING PURGING: Surface Water: Date and Time Collected: Collection Method: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond: Turbidity: Comments: Soils/Sediment Sampling: Date and Time Collected: Sampling Depth: Sampling Method:	
Surface Water: Date and Time Collected: Collection Method: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond: Turbidity: Comments: Soils/Sediment Sampling: Date and Time Collected: Sampling Depth: Sampling Method: Sampling Method:	Comments: FIELD MEASUREMENTS TAKEN DURING PURGING.
Date and Time Collected: Collection Method: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond: Turbidity: Comments: Soils/Sediment Sampling: Date and Time Collected: Sampling Depth: Sampling Method:	· · · · · · · · · · · · · · · · · · ·
Date and Time Collected: Collection Method: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond: Turbidity: Comments: Soils/Sediment Sampling: Date and Time Collected: Sampling Depth: Sampling Method:	
Collection Method: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond: Turbidity: Comments: Soils/Sediment Sampling: Date and Time Collected: Sampling Depth: Sampling Method:	Surface Water:
Collection Method: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond: Turbidity: Comments: Soils/Sediment Sampling: Date and Time Collected: Sampling Depth: Sampling Method:	Date and Time Collected:
Field Measurements: pH Temp: Cond: Turbidity: Comments: Soils/Sediment Sampling: Date and Time Collected: Sampling Depth: Sampling Method:	
Comments: Soils/Sediment Sampling: Date and Time Collected: Sampling Depth: Sampling Method:	
Soils/Sediment Sampling: Date and Time Collected: Sampling Depth: Sampling Method:	Field Measurements: pHTemp:Cond:Turbidity:
Date and Time Collected:	Comments:
Date and Time Collected:	
Date and Time Collected:	Soils/Sediment Sampling:
Sampling Method:	Date and Time Collected:
	Sampling Depth:
Comments:	
	Comments:



Well Purging/Sampling Form (Field Sheet)

Page 1 of 1

Project Name and Number:	Deseret Chemical Depot 01-0827-03-6523					
Well Number and Location:	S-45-90 SWMU 1	S-45-90 SWMU 11				
Sampling Crew:	Knut Torgerson, Pa	atrick Sorderberg				
Pump Depth/Total Depth (bt	oc): 28'/33.86'					
Purging Method: Submersit	ole Pump EPA Low F	Flow Method				
Quantity of Water Removed:	23 gal	Screen Length:				
Sample Number: S-45-90 (SAIC01)					
Date/Time 11/17/98	1135 - 1315					
Trip Blank Number: S-3	(SAICTB02)	Sampled by:				

FIELD MEASUREMENTS

Date/Time	Rate (GPM)	Volume (gals.)	Water Level (BTOC)	Temp (°C)	pH (Standard Units)	Specific Conductivit y (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
11/17/98 1235	.25	15	14.49'	11.2	7.42	12.3	4	6.03	170.1
11/17/98 1243	.25	17	14.49'	11.2	7.42	12.5	0	6.21	164.2
11/17/98 1251	.25	19	14.49'	11.1	7.41	12.6	0	6.18	162.5
11/17/98 1259	.25	21	14.49'	11.3	7.36	12.5	0	6.27	161.5
11/17/98 1307	.25	23	14.49'	11.2	7.40	12.6	0	6.23	161.9
									· · · · · · · · · · · · · · · · · · ·
									
						_			

							1		_
GPM = Gallon	s per Minut	e LPM =	Liters per	Minute	BTOC = Bel	ow Top of Ca	sing		
Comments:	Due to a pro	oblem with t	he pump, 15	gallons of v	water had beer	removed befor	e the pump co	ould be set at .2	25 gal/min.
PID = 1.2 ppm									
Form Comple	ted by:	Ty Grivat							

SWMU 11 MONITORING WELL S-46-90



*gallons per minute or bailer capacity

1547

Well Development Form

(Field Sheet)

Project Name and Number: TEAD - 5 01-0827-03-6523-466
Well Number and Location: <u>3-44-90</u>
Development Crew: SKIBWSKI / NELSON Driller (if applicable): DAN PLOTTS
Water Levels/Time: Initial: 20.75 BTOC Pumping: Final:
Total Well Depth: Initial: 28.05 BTOC Final:
Date and Time: Begin: 9/24/94 1345 Completed:
Development: Method(s): Z" Submersmis GRUNDEUS
Total Quantity of Water Removed: gals

Date/Time	Discharge Rate*		Field Meas	urements		Remarks
and Pump Setting	and Measurement Method	Temp (°C)	Specific Conductivity (umhos/cm)	pH (Standard Units)	Turbidity	(Including Sand Production)
9/24/94	Bucket	14, 2	120 × 100	4.47	set cloudy	3 1
1411	1900					out of water
						lovered pur
						seems to be he zapom flow
						diended will per
						nichange so da
434		14.1	1 22,8 \$ 100	4.94	clean	1411 restanted pump
45Z		14.2	135 × 100	7. 25 7. 28	clear	
716		16.4	135 X100	7.34	dear	

Science Applications International Corporation # 8400 Westpark Drive, McLean, Virginia 22102

STOPPED PUMPING

White: File Pink: Field Manager Yellow: Supervisory Geologist Goldenrod: Field Book



Sampling Form (Field Sheet)

Samr	ling Crew: JOE SKIBINSKI + TOWN PERBLETON JO NELSON
	ling Point Number: 5-46-90
	•
Samp	ling Location: AREA 10 SWMU !!
Samp	le Type: SGW SW Soil SED Other:
Date	and Time Sample Collected: 9/27/99 +002 1015
Weat	ner Conditions:
Dura	ing Information (if applicable):
rury	Method: 2" GRUNDES SURMERSIBLE PUMP
	Quantity of Water Purged:
	Disposition of Purge Water: WATER WAS TURBID, SLOW RECHARGE RRTE.
	Date and Time of Purging: Start: 9/26/99 1395 End: 9/26/99 1597
	Comments: FIELD MEASUREMENTS TAKEN BURING PURGING.
	@ 1352 1GPM PH: 6.67 TEMP: 14.2°C COND: 120 X 100 TURB: SCIGHTLY CLOW
Grou	ndwater:
	Date and Time Collected: 9/27/94 /002
	Sampling Depth: 20.4
	Camping Copin
	Water Level: INITIAL WATER SURFACE ELEVATION: 70.75 TOC
	Water Level: <u>INITIAL WATER SURFACE ELEVATION</u> : 20.75' TOC Sampling Method/Equipment:
	Sampling Method/Equipment:
	Sampling Method/Equipment: Cond: Alkalinity: Date and Time Filtered (if applicable):
	Sampling Method/Equipment: Cond: Alkalinity: Date and Time Filtered (if applicable):
	Sampling Method/Equipment: Cond: Alkalinity:
	Sampling Method/Equipment: Cond: Alkalinity: Date and Time Filtered (if applicable):
Surfa	Sampling Method/Equipment: Cond: Alkalinity: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): NA Comments: FIELD MEASUREMENTS TAKEN OVEING PURGING.
Surfa	Sampling Method/Equipment:
Surfa	Sampling Method/Equipment: Cond: Alkalinity: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): NA Comments: FIELD MEASUREMENTS TAKEN OVEING PURGING.
Surfa	Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): NA Comments: FIELD MEASULEMENTS TAKEN DURING PURGING, ace Water: Date and Time Collected: Collection Method: Date and Time Filtered (if applicable):
Surfa	Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): NA Comments: FIELD MEASULEMENTS TAKEN DURING PURGING, ace Water: Date and Time Collected: Collection Method: Date and Time Filtered (if applicable):
Surfa	Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): NA Comments: FIELD MEASUREMENTS TAKEN OVELNG PURGING, ace Water: Date and Time Collected: Collection Method:
Surfa	Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): NA Comments: FIELD MEASUREMENTS TAKEN DURING PURGING, Date and Time Collected: Collection Method: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond: Turbidity:
	Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable):
	Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): Comments: FIELD
	Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable):
	Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): NA Comments: FIELD
	Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): Comments: FIELD MEASUREMENTS TAKEN OVELNG PURGING, Collection Method: Date and Time Collected: Collection Method: Temp: Cond: Turbidity: Field Measurements: pH Temp: Cond: Turbidity: Comments: Sampling: Date and Time Collected: Date and Time Collected: Sampling Depth: Sampling Method:
	Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): NA Comments: FIELD



Sampling Form (Field Sheet)

Project Name and I	Number: 100 ELF	,,		UI- UDA 1-U.	ויאט באסט ל
	T. Carter, J.				
Compling Doint New	nber: Well 5-4	11-90	50.46	5 Ama	16
			ا ۱ مورج	04 1-11 62	10
· -	SWMU-10	•			· · · · · · · · · · · · · · · · · · ·
Sample Type:				_	
Date and Time Sar	nple Collected: 1/30/	195 15	.15		
Weather Conditions	: 35° F , CL.	ody, E	Slight	Breeze	
Purging Information Method: Quantity of Very Disposition of	on (if applicable): 2	gallows	ρ (GRUNDFO.	<u>(2</u>
	ne of Purging: Start: //		<i>3:4/</i> End	: //30/95	14:50
Sampling De	ne Collected: <u>//3c/</u> epth: <u>/8.0′ BTO C</u>	<u></u>			
Date and Tir Sampling De Water Level Sampling M Field Measu Date and Tir	ne Collected: //30 / epth: /80 BTO Control	Bailer (emp: 11.0 °C NA	Cond://D	Alkalinity:	
Date and Tir Sampling De Water Level Sampling Me Field Measu Date and Tir Comments:	epth: <u>/8,0′ BTo 0</u> - <u>i'9,66′ BTo 0</u> ethod/Equipment: <u>PVC</u> rements: pH Te ne Filtered (if applicable):	Bailer (emp: 11.0°C NA	Cond://O	MHasmAlkalinity: _	
Date and Tir Sampling De Water Level Sampling Me Field Measu Date and Tir Comments: Surface Water: Date and Tir	epth: \(\begin{align*} \textit{B\$ of B\$ To C} \\ \textit{B\$ To C} \\ \textit{B\$ To C} \\ \textit{E\$ To C} \\ \textit{e} \textit{E\$ To C} \\ \textit{e} \textit{E\$ To C} \\ \textit{e} \textit{e} \textit{thod/Equipment: } P/C \\ \text{rements: pH \textit{B\$ To C} \\ \text{rements: pH \text{To C} \\ \text{rements: pH \text{To C} \\ \text{policable}): \\ \text{ne Filtered (if applicable): } \\ \text{ne Collected: \text{To C} \\ \text{ne Collected: \text{To C} \\ \text{policable} \\ \te	Bailer (emp: 11.0 °C NA	Cond://D	Alkalinity:	
Date and Tir Sampling De Water Level Sampling Me Field Measu Date and Tir Comments: Surface Water: Date and Tir Collection Measurements	epth: \(\begin{align*} align	Bailer (emp: 11.0 °C NA	Cond://D	Alkalinity:	
Date and Tir Sampling De Water Level Sampling Me Field Measu Date and Tir Comments: Surface Water: Date and Tir Collection Measurement	epth: \(\begin{align*} align	Bailer (emp: 11.0 °C NA	Cond://D	Alkalinity:	
Date and Tir Sampling De Water Level Sampling Measur Date and Tir Comments: Surface Water: Date and Tir Collection Measur Date and Tir	epth: \(\begin{align*} align	Bailer (emp: 11.0 °C XA emp:	Cond://D	Alkalinity:	
Date and Tir Sampling De Water Level Sampling Me Field Measu Date and Tir Comments: Date and Tir Collection M Date and Tir Field Measu Comments: Solls/Sediment Sampling De	epth:	Bailer (emp: 11.0 °C XA emp:	Cond:	Turbidity:	
Date and Tir Sampling De Water Level Sampling Me Field Measu Date and Tir Comments: Date and Tir Collection M Date and Tir Field Measu Comments: Solls/Sediment Sampling De Sampling Measured	epth:	Bailer (emp: 11.0 °C XA emp:	Cond:	Turbidity:	



11/17/98

1449 11/17/98

1457 11/17/98

1507

.25

.25

.25

18.28'

18.28'

18.28'

6

8

10

12.8

12.7

12.9

Well Purging/Sampling Form

(Field Sheet)

Page 1 of 1

146.2

146.1

144.4

Project N	ame and N	lumber:	Deseret Ch	emical D	epot 01-0827	7-03-6523			
Well Num	nber and Lo	ocation:	S-46-90 S	WMU 11			_		
Sampling	Crew:	•	Knut Torge	erson, Pat	rick Sorderb	erg			
Pump De	pth/Total E	epth (bto	c): 22'/28.	.02'					
Purging N	/lethod:	Submersibl	le Pump EPA	Low Flo	ow Method				·
Quantity of	of Water R	emoved:	10 gal			Screen Length	1:		·
Sample N	lumber:	S-46-90 (S	AIC01)						
Date/Time	e	11/17/98 1	425 - 1515						
Trip Blank	k Number:	S-3	(SAICTB02))	Samp	led by:			
		-	F	FIELD I	MEASUR	EMENTS			
Date/Time	Rate (GPM)	Volume (gals.)	Water Level (BTOC)	Temp (°C)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
11/17/98 1433	.25	2	18.28'	12.6	7.77	15.8	553	3.47	166.8
11/17/98	.25	4	18.28'	13.1	7.62	16.1	0	5.44	153.0

7.63

7.60

7.62

16.2

16.3

16.3

0

0

5.58

5.61

5.64

GPM = Gallons per Minute LPM = Liters per Minute BTOC = Below Top of Casing

Comments:

Form Completed by: Ty Grivat

One well volume = $(H \times W) + \{0.33[(SH \times B) - (SH \times W)]\}$ Where: H = water column, W = well multiplier (2" = 0.16, 4" = 0.65), SH = screen height, B = borehole diameter multiplier (for 6" = 1.47, 8" = 2.61, 10" = 4.08, 12" = 5.89)

SWMU 11 MONITORING WELL S-74-90



Well Development Form

(Field Sheet)

Project Name and I	Number: TOUEEE ARMY DEPOT- SOUTH AREA	
Well Number and L	ocation: 5-74-90; SWNU 11	
Development Crew	: SKIBINSKI, PENDLETON Driller (if applicable): PLOTS	
Water Levels/Time		
Total Well Depth:	Initial: 32.10 Final:	
Date and Time:	Initial: 32.10 Final:	
Development:	Method(s): PUMPING WITH 2" SUBMERSIBLE	
	GRUNDES	
	Total Quantity of Water Removed: ~ 9 Z	_ gals

			Field Meas	surements		
Date/Time and Pump Setting	Discharge Rate* and Measurement Method	Temp (°C)	Specific Conductivity (umhos/cm)	pH (Standard Units)	Turbidity	Remarks (Including Sand Production)
9/27/94	0.3gnl/min TIMED BUCKET FILLING					
0807		9.7	15×100	6:71	CLOURY	COLUCIES,
0830	0.5g M/min	10.9	18 4100	6.94	Subung	COLUBLESS, FINE PARTICLES
0915	,, '	11.3	19400	7.02	CLEAR	
		11.7	20×100	6.97	u	
0945		12.4	20 × 100	6.96	u	}
1035		14.2	C01 X 100	6.95	u	
1125	. 1	14.2	624100	6.95	. (
1127	le.	14.2	617100	6.96	l (



Sampling Form (Field Sheet)

	ng Crew: JOE SKIBWSKI . JOHN PENDLETON	
	ng Point Number: S-74-90	
	ng Location: SWMU //	
-	Type: SGW Sw Soil SED Other:	
Date an	nd Time Sample Collected: 9/27/94 /220	
	er Conditions:	
Queain	g Information (if applicable):	
urgiri L	Method: 2" GRUNDFOS SUBMERSIBLE PUMP	
	Quantity of Water Purged:	
	Disposition of Purge Water: COLORLESS, FWE PARTICLES	
L	Dispusition of dige water. Course of the first of the fir	
Г	Date and Time of Purging: Start: 9/27/94 0800 End: 9/27/94 //28	
(Comments: FIECO MEASUREMENTS TAKEN OURING PURGING	
	@ 1127 O.SGPM pH:6.96 TEMP: H.7°C COND: GIXIOO TURBIDITY:	CLEA
	UMhos/cm	
	dwater: Date and Time Collected: 9/27/99 /270	
[Date and Time Collected: 9/27/99 /270 Sampling Depth: 23,75	
	Date and Time Collected: 9/27/94 /220 Sampling Depth: 23.25' Water Level: WITIAL WATER SURFACE LEVEL: 26.23' TOC	
. V	Date and Time Collected: 9/27/94 /220 Sampling Depth: 23,25' Water Level: WITIAL WATER SURFACE LEVEL: 26,23' TOC Sampling Method/Equipment:	
. V	Date and Time Collected: 9/27/99 1220 Sampling Depth: 23.25' Water Level: INITIAL WATER SURFACE LEVEL: 26.23' TOC Sampling Method/Equipment:	
[Date and Time Collected: 9/27/94 1220 Sampling Depth: 23.25' Water Level: WITIAL WATER SURFACE LEVEL: 26.23' TOC Sampling Method/Equipment: Cond: Alkalinity: Date and Time Filtered (if applicable): NA	
[Date and Time Collected: 9/27/99 1220 Sampling Depth: 23.25' Water Level: INITIAL WATER SURFACE LEVEL: 26.23' TOC Sampling Method/Equipment:	
V 	Date and Time Collected: 9/27/94 1220 Sampling Depth: 23.25' Water Level: WITIAL WATER SURFACE LEVEL: 26.23' Toc Sampling Method/Equipment: Cond: Alkalinity: Date and Time Filtered (if applicable): NA	
E	Date and Time Collected: 9/27/94 /220 Sampling Depth: 23,25' Water Level: WITIAL WATER SURFACE LEVEL: 26,23' TOC Sampling Method/Equipment:	
C S F I C	Date and Time Collected: 9/27/94 /220 Sampling Depth: 23,25' Water Level: WITIAL WATER SURFACE LEVEL: 26,23' TOC Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): NA Comments:	
C S F C Surfac	Date and Time Collected: 9/27/94 /220 Sampling Depth: 23.25' Water Level: WITIAL WATER SURFACE LEVEL: 26.23' TOC Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): NA Comments: Temp: Cond: Alkalinity: Date and Time Collected:	
	Date and Time Collected: 9/27/91 /220 Sampling Depth: 23.25' Water Level: WITIAL WATER SURFACE LEVEL: 26.23' Toc Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): _NA Comments: Temp: Cond: Alkalinity: Date and Time Collected: Collection Method:	
	Date and Time Collected: 9/27/91 /220 Sampling Depth: 23.25' Water Level: WITIAL WATER SURFACE LEVEL: 26.23' TOC Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable):	
C S F I C Surface	Date and Time Collected: 9/27/94 /220 Sampling Depth: 23.25' Water Level: WITIAL WATER SURFACE LEVEL: 26.23' TOC Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): Tew Water: Date and Time Collected: Collection Method: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond: Turbidity:	
C S F I C Surface	Date and Time Collected: 9/27/91 /220 Sampling Depth: 23.25' Water Level: WITIAL WATER SURFACE LEVEL: 26.23' TOC Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable):	
	Date and Time Collected: 9/27/94 /220 Sampling Depth: 23.25' Water Level: WITIAL WATER SURFACE LEVEL: 26.23' TOC Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): Tew Water: Date and Time Collected: Collection Method: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond: Turbidity:	
Surface	Date and Time Collected: 9/27/94 /220 Sampling Depth: 23,25' Water Level: WITIAL WATER SURFACE LEVEL: 26,23' TOC Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): Tew Water: Date and Time Collected: Collection Method: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond: Turbidity: Comments: Comments:	
Gurfac	Date and Time Collected: 9/27/91 /220 Sampling Depth: 23,25 Water Level: INITIAL WATER SURFACE LEVEL: 26,23 Toc Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): Water: Date and Time Collected: Collection Method: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond: Turbidity: Comments: Sediment Sampling:	
Surfac	Date and Time Collected: 9/27/91 /220 Sampling Depth: 23,25' Water Level: WITIAC WATER SURFACE LEVEL: 26,23' TOC Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): WA Comments: Tew Water: Date and Time Collected: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond: Turbidity: Comments: Sediment Sampling: Date and Time Collected:	
Surfac	Date and Time Collected: 9/27/91 /220 Sampling Depth: 23,25' Water Level: WITIAL WATER SURFACE LEVEL: 26.23' TOC Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): Water: Date and Time Collected: Collection Method: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond: Turbidity: Comments: Sediment Sampling: Date and Time Collected: Sampling Depth:	
Surfac () () () () () () () () () ()	Date and Time Collected: 9/27/91 /220 Sampling Depth: 23,25' Water Level: WITIAC WATER SURFACE LEVEL: 26,23' TOC Sampling Method/Equipment: Field Measurements: pH Temp: Cond: Alkalinity: Date and Time Filtered (if applicable): WA Comments: Tew Water: Date and Time Collected: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond: Turbidity: Comments: Sediment Sampling: Date and Time Collected:	



Well Purging/Sampling Form (Field Sheet)

Page 1 of 1

Project Name and Number:	Deseret Chemical Dep	pot 01-0827-03-6523				
Well Number and Location:	S-74-90 SWMU 11					
Sampling Crew:	Knut Torgerson, Patrick Sorderberg					
Pump Depth/Total Depth (bto	oc): 26'/31.82'					
Purging Method: Submersit	ole Pump EPA Low Flow	w Method				
Quantity of Water Removed:	23 gal	Screen Length:				
Sample Number: S-74-90 (SAIC01)					
Date/Time 11/17/98	0950 - 1110					
Trip Blank Number: S-3	(SAICTB02)	Sampled by:				

FIELD MEASUREMENTS

Date/Time	Rate (GPM)	Volume (gals.)	Water Level (BTOC)	Temp (°C)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
11/17/98 1020	.25	15	22.35'	11.0	7.50	8.69	9	2.87	141.0
11/17/98 1028	.25	17	22.35'	11.7	7.49	8.66	0	3.35	139.9
11/17/98 1036	.25	19	22.35'	12.1	7.51	8.66	0	4.00	142.9
11/17/98 1044	.25	21	22.35'	12.2	7.55	8.68	0	4.11	145.0
11/17/98 1052	.25	23	22.35'	12.0	7.49	8.65	0	3.98	142.3
			 	-					

GPM = Gallon	s per Minut	e LPM	Liters per	Minute	BTOC = Be	low Top of	f Cas	ing	<u> </u>	<u> </u>	
Comments:	Due to a pro	oblem with	the pump, 15	gallons of	f water had bee	en removed b	before	the pump c	ould be set at	.25 gal/min.	
Form Comple	ted by:	Ty Grivat									

One well volume = $(H \times W) + \{0.33[(SH \times B) - (SH \times W)]\}$ Where: H = water column, W = well multiplier (2" = 0.16, 4" = 0.65), SH = screen height, B = borehole diameter multiplier (for 6" = 1.47, 8" = 2.61, 10" = 4.08, 12" = 5.89)

SWMU 11 MONITORING WELL S-75-90



Well Development Form

(Field Sheet)

Vell Number Development	and Location: S Crew: <u>SCIB/48/</u>	-75-90 I /PEVOU	Sourt 70√ Driller	(if applicable	DAN	PLOTTS
Vater Levels/		•				l:
otal Well De	oth: Initial:		Final:			
Date and Tim	e: Begin: <u>9</u> /2	6/94	1628	Completed:		
Development:	Method(s):	2" Sue	MERS BC	E GIZU	JDFOS	
	Total Quantity of	Motor Bom	ovod:	· · · · · ·		gale
Data/Time	·	Water Rem	noved:			gals
Date/Time and Pump Setting	Total Quantity of Discharge Rate* and Measurement Method	Water Rem			Turbidity	Remarks (Including Sand Production)
and Pump	Discharge Rate* and Measurement		Field Meas Specific Conductivity	surements pH (Standard	ļ	Remarks (Including Sand

*gallons per minute or bailer capacity

White: File

Pink: Field Manager

Yellow: Supervisory Geologist

Goldenrod: Field Book



Well Development Form

(Field Sheet)

TF-11 = 03-6523-021
roject Name and Number: TEA 0-5 01-0827-08000
Vell Number and Location: 5-75 OUTSIDE AREA 10
evelopment Crew: MHLK M COURE MICE MILES Driller (if applicable):
Vater Levels/Time: Initial: 20.1 BGS Pumping: Final:
otal Well Depth: Initial: 27.75 BGS Final:
ate and Time: Begin: 10/11/99 1345 Completed:
evelopment: Method(s): 1.5 GAL DEDICATED BAILOR
Total Quantity of Water Removed: 18 GALS gals

Date/Time	Discharge Rate*		Field Mea	surements		Remarks
and Pump Setting	and Measurement Method	Temp (°C)	Specific Conductivity (umhos/cm)	pH (Standard Units)	Turbidity	(Including Sand Production)
10/11/99	1.5 GALS	15.5	319 X10	7.18	54.5	RELATIVELY
1910	1.5 GALS	13.3	323 XO	7.60	7700	-MUCH MORE
1435	1. SGALS	14.4	373 X10	7,68	19.9	TURBIO SINCE WE ARE TAKIN IT FROM THE
1450	1.5 GALS	13.5	339×10	7.65	7200	воттом.
			_			
	·					

*gallons per minute or bailer capacity



Sampling Form (Field Sheet)

Project Name and Number: TEAO-5			
Sampling Point Number: S-75 - 90			
Sampling Location: SWAU II			
Sample Type: ☑ GW ☐ SW] Other:
•	•		
Weather Conditions: <u>SUUNY</u> , 60°F			
Purging Information (if applicable):			
	TED TEFLON	BAILOR	
Quantity of Water Purged:	GAL.		
Disposition of Purge Water:St	LIGHTLY TURB	ID, NO EVIDEN	CE OF MODUCT
			1011/00 1070
Date and Time of Purging: Star			10/11/99 1950
Comments: FIELD MEASURE	1.365 TELLE	LISSO COL	A: 333×10 TURBUDITY: >200NT
6 1450 7.5 OFF	. 1.00	4.6.5 C CO.	thos/cm
Groundwater:			
	11/00 1616		
Date and Time Collected: _/o/			
Sampling Depth:	ER LEVEL . 2	2.2 Toc.	
Field Measurements: pH	Temp:	Cond:	Alkalinity:
Comments: FIELO MEASUE	LEMENTS TAKE	N BURING	CURGING.
Surface Water:			
Date and Time Collected:			
Date and Time Filtered (if applic	cable):		
Field Measurements: pH			
			i
Comments:			
			,
Soils/Sediment Sampling:			· · · · · · · · · · · · · · · · · · ·
Soils/Sediment Sampling: Date and Time Collected:			· · · · · · · · · · · · · · · · · · ·
Soils/Sediment Sampling: Date and Time Collected: Sampling Depth:			
Soils/Sediment Sampling: Date and Time Collected:			



Sampling Form

(Field Sheet)

Project Name and Number: 100	ELF DOU	th KFI	01-0827-03-6523-02
Sampling Crew: T Co. ste-	T <ki< td=""><td>BINKET</td><td>J. PENDLETON</td></ki<>	BINKET	J. PENDLETON
Sampling Crew.	7 3 - 50	DINSKI,	J. TEN SELIUIV
Sampling Location: <u>SWMU</u>	Sou-	th of Are	a 10
Sample Type: 💟 GW 🔲 :	SW 🔲 Soil	☐ SED ☐	Other:
Date and Time Sample Collected:	1/30/95	12:00	
Manhan Candidana 75785	(1.)	-i 14 0	
Weather Conditions: 35 %	Cloudy,	Slight B	reeze
	•	•	
Purging Information (if applicable)	:	0	
Method: 2" Sub	mersible	Pump	(Grundfos)
Quantity of Water Purged:	25 gallon.	s ′	
Disposition of Purge Water: _	Clear		(Grundfos)
Date and Time of Purging: S	Start: <u>//30/95</u>	- /605 End:	1/30/95 16:52
Comments:			
	·		
Groundwater:			
Date and Time Collected:	130 195	17:00	
Sampling Depth: 201	Broc		
¬	A		
Sampling Method/Equipment	: PVC Baile	or (dedica	Ted) MHOOAlkalinity:
Field Measurements: pH 22	10 Temp: //	C_ Cond 210 "	ConAlkalinity:
Date and Time Filtered (if ap	plicable): ///		
Comments:		·	
	. 		
Surface Water:			
Date and Time Collected:			
Date and Time Collected.			
Collection Method:			
Collection Method: Date and Time Filtered (if ap	plicable):		
Collection Method: Date and Time Filtered (if ap Field Measurements: pH	plicable):		
Collection Method: Date and Time Filtered (if ap	plicable):		
Collection Method: Date and Time Filtered (if ap Field Measurements: pH	plicable):		
Collection Method: Date and Time Filtered (if ap Field Measurements: pH Comments:	plicable):		
Collection Method: Date and Time Filtered (if ap Field Measurements: pH Comments: Solls/Sediment Sampling:	plicable): Temp:	Cond:	Turbidity:
Collection Method: Date and Time Filtered (if ap Field Measurements: pH Comments: Soils/Sediment Sampling: Date and Time Collected:	plicable): Temp:	Cond:	Turbidity:
Collection Method: Date and Time Filtered (if ap Field Measurements: pH Comments: Soils/Sediment Sampling: Date and Time Collected: Sampling Depth:	plicable): Temp:	Cond:	Turbidity:
Collection Method: Date and Time Filtered (if ap Field Measurements: pH Comments: Soils/Sediment Sampling: Date and Time Collected:	plicable): Temp:	Cond:	Turbidity:



Trip Blank Number:

Well Purging/Sampling Form

(Field Sheet)

Page 1 of 1

Project Name and Nur	nber. L	eserer Chemical	Depot 01-0827-03-0323			
Well Number and Loc	ation: S	-75-90 SWMU 1	1			
Sampling Crew:	K	nut Torgerson, P	Patrick Sorderberg			
Pump Depth/Total De	pth (btoc):	e): 24'/28'				
Purging Method: Sul	bmersible l	Pump EPA Low F	Flow Method			
Quantity of Water Ren	noved:	23 gal	Screen Length:			
Sample Number: S-	75-90 (SAI	C01)				
Date/Time 11	/18/98 081	0815 - 0930				

FIELD MEASUREMENTS

Sampled by:

S-3 (SAICTB02)

Date/Time	Rate (GPM)	Volume (gals.)	Water Level (BTOC)	Temp (°C)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
11/18/98 0835	.25	5	19.60'	10.6	7.15	5.13	46	5.57	184.3
11/18/98 0845	.25	15	19.60'	11.6	7.65	4.60	105	6.50	185.9
11/18/98 0953	.25	17	19.60'	11.8	7.74	4.52	92	6.66	189.2
11/18/98 0901	.25	19	19.60'	12.1	7.78	4.46	1	6.38	186.5
11/18/98 0909	.25	21	19.60'	11.9	7.78	4.52	0	6.44	186.0
11/18/98 0917	.25	23	19.60'	11.9	7.79	4.49	0	6.41	184.4
 									
									<u>-</u>

GPM = Gallons per Mir	oute LPM = Lit	ers per Minute	BTOC = Belov	w Top of Casing		
•	Blank = S-75-90 (SA)	•				
Due to a problem with the	pump, 15 gallons o	f water had been re	emoved before th	e pump could be s	et at .25 gal/min.	
Form Completed by:	Ty Grivat					

One well volume = (H × W) + $\{0.33[(SH \times B) - (SH \times W)]\}$ Where: H = water column, W = well multiplier (2" = 0.16, 4" = 0.65), SH = screen height, B = borehole diameter multiplier (for 6" = 1.47, 8" = 2.61, 10" = 4.08, 12" = 5.89)

SWMU 19 BUILDING 533 FOUNDATION (EMPTY DRUM STORAGE AREA)

SOIL BORING LOGS

					OIL BORING			_			
į			-S Phase II RFI				Soil Boring No				-
SAIC F	Project	No.: 0	-0827-03-6523	_ Drilling Method_	Dual Wall Percussion		Start/Finish [ate:	10-07-9	14/10-07-	94
Geolog	gist:	like Miles		_ Drill Rig_ A.P. 10	00		Sampling Meth	od: <u>S</u>	plit Spo	on/Grab	
Drilling	Co.:	Layne E	nvironmental Inc.	DrillerKevin Ci	oss		Drilled Depth	(ft);	20.50		
Depth (feet)	Soil Class USCS	응 슅		Material De	scription		Blows/6 in.	Lab ID	Sample Type And #	HNU (ppm)	
			materials are (silts ar	nd clays) they are ravels are 0.5–1.0"	10YR3/4 Dark brown. Fine soft; loose damp; low plast in size; subrounded to sub- = Alluvial outwash	ticity; no	6-12-4-16	1	SS	0	+
5-	ML						8-13-				۴
							12-15	2	SS	0	
10-	GC	00000000000000000000000000000000000000	size. Sand fine to me sorted. Large Gravel decomposed cement n	dium grained, subro to cobble size lime	7.5YR3/1 limestones; 1 to 4 nunded to subangular poorl stone (1-4), dark gray wh	ly					φ.
15-				.5YR5/4 brown; sof	t loose; damp; moderate pl	lasticity;	50/	3	SS	0	-15 -
20-	CL		·								-20
207							9-18- 28-38	4	SS	0	-
			Bottom of Boring at 2		,,,-<u></u>		_				
25			NOTE:NR=Not Record	led, NA=Not Applica	able Borehole Diameter=9.5	5"					- -25

					OIL BORING					
)-S Phase II RFI	_ Site Location:_						
SAIC	Project	No.: <u>0</u>	1-0827-03-8523	_ Brilling Method.	Dual Wall Percussion	Start/Fini	sh Date:.	10-07-6) 4/10-07	-94
Geolo	gist: M	ike Miles	<u> </u>	_ Drill Rig <u>A.P. 1</u>	1000	Sampling	lethod:_	Split Spo	on/Grab	
Drilling	Co.:	Layne E	nvironmental Inc.	DrillerKevin (Cross	Drilled De	oth (ft);_	22		_
Depth (feet)	Soil Class USCS	Lithologic Symbol		Material De	escription	Blows/6 In.	Lab ID	Sample Type And #	HNU (ppm)	
5-	ML		materials are (silts ar	nd clays) they are ravels are 0.5–1.0'	d; 10YR3/4 Dark brown. Fine e soft; loose damp; low plasticity; i " in size; subrounded to subangula it = Alluvial outwash		12 1	SS	O	٠ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ
10-	GC	000000000000000000000000000000000000000	size. Sand fine to me	dium grained, subr to cobble size lim	y 7.5YR3/1 limestones; 1 to 4" in counded to subangular poorly estone (1–4), dark gray when into	10-22- 50/8	2	SS	0	10
15-			50% Clay, 50% Silt. 7. no apparent bedding	5YR5/4 brown; so	oft loose; damp; moderate plasticit	у;				-15 -
20-	CL		Bottom of Boring at 2	22 feet		8-12- 18-21	3	SS	0	20
25					cable Borehole Diameter=9.5"					25

Projec	·+ Name	. TEAC	SOIL BORING D-S Phase II RFI Site Location: SWMU 19	Soil Boring N	a. BH	J-19-00:	3	
				_ Soil Boring No _ Start/Finish [-94
		like Miles						
Į.			Invironmental Inc. Driller Kevin Cross				Dily O. C.	
Drilling	Co	Layine	NAME OF THE PARTY	_ Drilled Depth	(ft);			T
Depth (feet)	Soil Class USCS	응달	Material Description	Blows/6 in.	Lab ID	Sample Type And #	HNU (ppm)	
			60% Silt, 25% Clay, 10% Sand, 10% Gravel 10YR3/4 Dark brown. Fine materials are soft; loose; damp; moderate pasticity; no apparent bedind. Depositional environment = Alluvial outwash	6-11- 10-12	t	ss	0	†
5-	ML							5
10-		00000000000000000000000000000000000000						10
15-	GC	00000000000000000000000000000000000000	70% Gravel, 15% Sand, 10% Silt, 5% Clay Dark gray 7.5YR3/1. Gravel, 0.5-1.5" in size; subrounded to angular; poorly sorted. Sands fine to medium grained; subrounded; poorly sorted					-15
20-	1	000000						-20
25-		0000		50/3 50/5	2	ss	0	25
			55% Silt, 45% Clay. Fine materials are hard; dense; damp; no apparent moderate platicity; apparent bedding	_	3	SS	0	+
30-	ML							-30 -
35-				26-39- 44-50/5	4	ss	0	35
			Bottom of Boring at 35 feet NOTE:NR=Not Recorded, NA=Not Applicable Borehole Diameter=9.5"					}
40-								40

Pro j e c	t Name	: TEAD	O-S Phase II RFI	SOIL BORING Site Location: SWMU 19	Soil Boring No	o.: <u>B</u> F	1-19-004	1	
SAIC	Project	No.: 0	I-0827-03-6523	Drilling Method Dual Wall Percussion	Start/Finish [Date:_	10-07-9	94/10-07	-94
Geolog	jist: <u>M</u>	ike Miles	3	Drill Rig_ A.P. 1000	Sampling Meti	hod:	Split Spo	on/Grab	
Drilling	Co.:	Layne E	nvironmental Inc.	Driller_Kevin Cross	Drilled Depth	(ft);_	35		
Depth (feet)	Soil Class USCS	응달		Material Description	Blows/6 In.	Lab ID	Sample Type And #	HNU (ppm)	
				Sand, 5% Gravel 10YR3/4 Dark brown. Soft; loose to pasticity; Depositional environment = Alluvial	3-8-13-18	1	ss	0	† - -
5-	ML								ب
10-									10
15-		000000 00000	Gravel			<u>.</u>			-15
20-	GC	000000							-20
25-				785/3 brown. Fine materials are hard; dense; high					-25 -
30-	CL		platicity; no apparent l	pedding. Depositional environment = Lake sediments	27-33- 50/2	2	SS	0	-30 -
35-			Bottom of Boring at 35	feet d, NA=Not Applicable Borehole Diameter=9.5"					-35
40-									-40

					SOIL BORING LOG	<u> </u>						
					Site Location: SWMU 19							
					Northing (ft): ?					08-94		
			ike Miles		Easting (ft): ?							
			Cross		Groundwater Elev. (ft): NA Drilling Method: Dual Wall Percussion							
		A.P.			Sampling Method: Split Spoon/Grab							
۳	III NIY.			<u> </u>	_ Sampling Method	. TOP OF C	T Clevi	ation ,	Tt <i>)</i>		$\overline{}$	
napth	(feet)	Soil Class USCS	Lithologic Symbol		Material Description		Blows/6 in.	Lab ID	Sample Type And #	HNU (ppm)		
					% Sand, <5% Gravel. 10YR5/4 dark brown; medium d; medium dense; damp; no apparent bedding. Lake	:	2-26-10-6	1	SS-1	0	† 	
6	5-				•						5	
10	0-	ML									-10 -	
15	5-			Same material, color of increased to 15-20% of	change. 2.5YR6/4 light yellowish brown; Sand conte fine to very fine.	ent has					- - 15	
20)- 										-20	
25	;- - -			micro-fractures; mois	ie. some tracks of iron staining have shown up in th t		7-42-50/	5 1	SS-2	15	25	
30)- 			,							-30	
	-				•						35	
36	, 										-35 - -	
40	,]										40	

Project Name: TEAD-S Phase I SAIC Project No.: 01-0827-03- Geologist: Mike Miles Drilling Co.: Layne Environmenta Driller: Kevin Cross Drill Rig: A.P. 1000	6523 Northing (ft): ? Start Easting (ft): ? Well (ft): NA Drille Inc. Groundwater Elev. (ft): NA Drille Drilling Method: Dual Wall Percussion Surfa	Pepth (ft):NA				
Depth (feet) (feet) Soil Lithologic Symbol	Material Description	Blows/6 In.	Lab ID	Sample Type And #	HNU (mdd)	
plasticit ML 60% Cia plasticit Gravel	35% Clay, 10% Sand, 5% Gravel (.25-1"). 10YR3/3 dark brown; medium y; soft; loose to dense; damp; no apparent bedding. Alluvial Outwash. y, 25% Silt, 15% Sand fine to very fine. 7.5YR5/3 brown; medium y; dense; stiff; moist; no apparent bedding. Lake Sedlments .5-1.2"). Alluvial Outwash	NA	1	G-1	0	10 15
O O O O O O O O O O O O O O O O O O O	y, 55% Clay, 45% Silt. 10YR6/2 light brown gray; plastic; hard; dense; dry; iron staining in microfractures. Lake Sediments.					25
30- CL	•	12-19-22-3	23 1	SS-2	0	30
	of Boring at 35.0 feet R=Not Recorded, NA=Not Applicable Borehole Diameter=9.5"	23-34-42-5	0/31	SS-3	0	35
40						- 4 0

				SOIL BORING LOG						
			-S Phase II RFI	Site Location: SWMU 19	Monitorin	g Well No.:	BH-1	9-007	07.04	
	Project i gist: <u>Mi</u>		-0827-03-6523	Northing (ft):?		ish Date:_			-07-94	
				Groundwater Elev. (ft): NA						-
	Kevin			Drilling Method: Dual Wall Percussion		Pad Elevation (ft): NA				
	ig: A.P.			Sampling Method: Split Spoon/Grab		asing Elev				
	Ĭ				,	1				\top
Depth (feet)	Soil Class USCS	용힅		Material Description		Blows/8 in.	Lab ID	Sample Type	HNU (ppm)	
			Decomposed Asphalt			12-25-18-1	, ,	SS-1	0	7
5-	ML			% Sand, <5% Gravel. 10YR4/3 dark brown; mediul e; moist; no apparent bedding. Lake Sediment an	m					-5
10-			• • • • • • • • • • • • • • • • • • • •	% Sand, 10% Gravel. 10YR4/3 dark brown; medium f; moist. Alluvial Outwash						-10
15-				40% Silt. 2.5YR6/3 light yellow brown; high plasti				ļ		45
20-	CL		stiri, dense, moist, no	apparent bedding; some Iron staining. Lake Sec		7-19-21-2	0 1	SS-2	0	-20
25-			55% Clay, 25% Silt, 20 dense; stiff; moist, L	0% Sand. 2.5YR5/4 light olive brown; high plastici	ty;	_				-25
30-				*						-30
35-						9-12-21-30	1	SS-3	0	 35 -
	-	====	Pottom of Perina -4	37.0 faat		 				+
40			Bottom of Boring at 3 NOTE:NR=Not Record	ied, NA=Not Applicable Borehole Diameter=9.5"						- -40

.

SWMU 19 MONITORING WELL S-113-94

			· · · · · · · · · · · · · · · · · · ·	SOIL BORING/WE	LL LO	}						
			-S Phase II RFI	Site Location: SWMU 19					No.: S-1			
SAIC Project No.: 01-0827-03-6523 Northing (ft): 2219784.42 Geologist: Mike Miles Easting (ft): 428919.48												
									Depth (f		5.0	
			nvironmental Inc.	Groundwater Elev. (ft): 5117.04	Indwater Elev. (ft): 5117.04 on 09/26/94 Drilled Depth (ft); 139.0 ng Method: Dual Wall Percusion Surface Pad Elevation (ft):							
		Cross										
Orill Rig	g: A.P.	. 1000		Sampling Method: Split Spoon/G	rap	- -	Top of (Casing E	levation		t. As-Bu	
				Blows/d in Box Supplemental Box Supplem			Sample Type	HNU (ppm)				
5-	GC	00000	bedding; sub-rounded t environment = Alluvial o						Steel Casing	dule 40 PVC Riser		-
10-	İ	000		70% Gravel, 15% Sand, 10% Silt, 5% Clay. 10YR7/3 pale			G	0	<u> </u>			
1		000	Sample Interval was 9 t	brown; no plasticity; loose; dry; no apparent bedding; Sample Interval was 9 to 9.5. Depositional					1			
15-		00	brown; high plasticity; s	Sand. 10YR6/4 light yellowish tiff; dense; moist; no apparent								
20-			bedding. Sand is very f poorly sorted. Sample I	1 15-13-15 1		2	SS	0	1			
25	ML		Depositional environmen									
30-	GC	000	10YR6/5 pale brown; no	Sand, 10% Silt and Clay. n-plastic; soft loose; dry; no el is subrounded to angular,	50/	3	G	0	-	Riser — <i>IIIIIIIIII</i>		
35-			poorly sorted; Sample I Depositional environmen	nterval was 29,0 to 29,5 at = Alluvial outwash	/					Shedule 40 PVC Riser	Cement/Bentonite Grout	
- }	ML			YR5/3 light olive brown; high moist; no apparent bedding.			<u> </u>		_	g g	Ben	
40-	1		Sample Interval 39.0 to	40.5. Depositional	9-11-21	4	SS	0	_	Se 🛮	art 🛛	
1	İ		environment = Lake sed	iment						4	Se Mi	
45-		700	hard, damp and clean. S	e, subrounded to angular,	NA	5	G	0	1			
1	ec	000		Sample Interval was 44 to 46,					1			
50-	\vdash	5	Sample collected from C	R5/3 brown; stiff; dense; moist;	22-25-25	8	SS	0	1			
			• • • • • • • • • • • • • • • • • • • •	anes. Sample Interval was 49		Ť		<u> </u>	1			
55-			to 50.5. Depositional e	nvironment = Lake sediments								
80-	CL		Lithology remained unch	panged color change to	NA NA	7	G	0	1			
60-				ample Interval was 59.0 to 59.5		Ė		├─ਁ	1			
85-												
70-				Sand 10YR5/3 brown; medium	10-11-20	8	SS	0	1			
•	ML		plasticity; dense; stiff; Sample Interval was 69	moist; no apparent bedding. to 70.5. Depositional	12 23	Ť	- -	<u> </u>	1			
_ ‡			environment = lake sedi	·								
75-J									-	634		-
		[]						ļ				
	1						!					

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Project Name: TEAD-S Phase II RFI SAIC Project No.: 01-0827-03-8523 Geologist: Mike Miles Drilling Co.: Layne Environmental Inc. Driller: Kevin Cross Drill Rig: A.P. 1000				Well Completion Depth (ft): 135.0 Drilled Depth (ft): 139.0 Surface Pad Elevation (ft): 5229.04 Top of Casing Elevation (ft): 5231.00 Well Const. As-Built					
Class Name of Cl	ial Description			Sample Type	HNU (ppm)				
80- 80 % Silt, 40% Clay frag (.25"75"). 10YR5/3 po medium consistency; stir Interval was 79.0 to 80	ale brown; high plasticity; ff; molst; dense; Sample	6-8-13	9	SS	0		C Riser	Cement/Bentonite Grout	80 85 95 95
plasticity; stiff; dense;		7-10-21 NA	10	SS	0	40 PVC Screen	4" Shedule 40 PVC Riser ***********************************	Cement/B	100
dense; moist; no appare micro-fractues. Deposi Sediment	tional environment = Lake	20-23-26	13	SS	0	4" .010 Slot Schedule	**************************************	Filter Pack	-120 -120 -125
	dark gray. Very fine to fine ed to rounded, moderately er encountered	25-50/4	14	SS	0	Ľ,		Sand	H30
80% Gravel, 15% Sand, 5 0.25 to 1" in size; rounde sorted; loose and satura between sand and gravel. Lake Sediments. Sample 80% Silt, 30% Clay; 10% Splasticity; stiff: dense; replanes. Depositional en Bottom of Boring at 139	% Silt, 10YR5/3 brown; Gravel ed to subrounded, poorly ated. Clear bedding contact el. Dep[ositional environment = e Interval = Alluvial outwash Sand. 10YR5/3 brown; medium moist; no apparent bedding vironment = Lake sediments .0 feet I, NA=Not Applicable Borehole	NA	15	G	0	_			-144 -145 -150

WLI

FELL DRILLER'S REPORT

State of Utah Division of Water Rights

	For addi	tional space, use "Add	itional Wel	I Data Form" and atta	ich		
Well Identification	NITOR WELL	L: 94-15-002-M-0	01				
					" Very		
P.	IC - Took! C. Box 130 Lash, VA				est.		
		Contact Person	n/Engineer:	John Pendleton			
NC		Ceet EAST 2750 1 TOWNSHIP 68, RI	eet fro	m the SW Corne	r of		
Location Description	: uddress, proximi	ty to buildings, landmarks, gre	ound elevation.	local well #)			
Drillers Activity	Start Date:	9-19-94		Completion Date: 10-1	L - 94		
Check all that apply: New Repair		ndon Replace Public		•			
DEPTH (feet)	BOREHOLE	DRILLING M	ETHOD	DR	LLING FLUID		
FROM TO 139	DIAMETER (in)	Percussin hamme		Air			
			<u> </u>				
					man die 1800 - F		
Well Log	W ! UNCONS	OLIDATED CONSOLIDATED	ì				
DEPTH (feet) FROM TO	A R C S S C S	C B O T ROCK TYPE L E ROCK TYPE S R	COLOR		(S AND REMARKS in water quality if known.)		
0 139_	x x x	(X)					
	╺┠┈╅┈┼┼┼						
		++++			- Committee of the Comm		
					- Annual Control of the Control of t		
					the state of the s		
					44		
					A-1641		
Static Water Level							
Dute 9-21			130	_	1] Yes X No		
	1	ent	If Flow	ing, Capped Pressure	PSI		
	1 -	rement was Referenced bint above ground surface	fo	et Temperature	□°C □°F		

Construct	ion Info	rmation		, ,						Algorithm (
DEPTH			CASIN	IG		DEPTH	(feat)	SCREEN	X PERF	ORATIONS [
FROM TO			CASING TYPE AND AATIMIALIGRADE	WALL THICK (in)	NOMINAL DIAM. (m)	FROM	то	SLOT SIZE OR PRRF SIZE (IR)	SCREEN INAM. OR PERFLENGTH (In)	SCREEN TYPE OR NUMBER PERS (per round/injerve	
0	125	Sch	40 PVC		4	125	135	.010			
.											
							ļ		· · · · · · · · · · · · · · · · · · ·		
			- · · · · · · · · · · · · · · · · · · ·		-	<u> </u>		·		 	
						<u></u>	<u> </u>				
Well Hea	ad Confi	guration:_	Above gra	de	· · · · · · · · · · · · · · · · · · ·		Ac	cess Port Prov	ided? Ki Yes	£.1 No	
Casing J	oint Typ	e:	Flush thread		_ Perforator	Used:					
DEPTH	(feet)		FIL	TER PACK	/GROUT / P	ACKER / /	BANDO	NMENT MATE	RIAL		
FROM	то	A	NULAR MATERIAL and/or PACE	, ABANDONI (ER DESCRII		UAL		y of Material Used fappticable)	GROUT DENSITY (lbs/gal,# bag mix, gal/sack etc.)		
120	135	10-	20 Sand					14			
115.	120	Вег	tonite seal.	pellets	1			2			
0	115	Por	tland cement				<u></u>	28		n - 1 00 ,	
	<u> </u> 										
							·				
	į									r	
Well Dev			or Bail Tests		· · · · · · · · · · · · · · · · · · ·		·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
		Partice Horses			 			Units Check One	DRAWDOWN	TIME	
Dute	-		Method			Y	ieid	GPM CFS	(前)	(hrs & min)	
											
				 							
<u> </u>						1					
Pump (Pe		-			Uossas			Diseas Intelle	Domethy	r	
Pump De	•		mping rate:		Well disin	ower: fected up:		•	Depth: Yes 🗀 No		
Comment	s Desc	ription of c	onstruction activity,	additional m	aterials used,	problems e	neounien	d, extraordinary		100	
late (* 	circu	mkiances, e	bundenment / proces	dures. Use ac	dditional well	data form	for more	space.			
										period (f. 15) is an income of	
	i. L #846 400			······································						en transmission of the	
www.s.c.ya.c.								***	in to VII.d da.		
Well Dri	Her State	ement T	his well was drilled o	or abandoned and correct	l under my su to the best of	pervision, a my knowle	ecording	to applicable ru selief.	les and regulation	is, and	
Name_	Lay	ne Envi	ronmental Se	rvices	·	=	License !		626		
Signati	µre	(Penka	Firm, or Corporation	<u> </u>	E)		Date_	10-18-9			
4 - ''			(Licensed Well Dri	iller)							



Well Development Form

(Field Sheet)

Project Name and Number: <u>TOOELE -SOUTH</u> 01- 0827 -03- 6523 -020
Well Number and Location: NW 5-1/3-94
Development Crew: MARK MCGUIRE Driller (if applicable): DAN PLOTTS
Water Levels/Time: Initial: 109.98 Pumping: Final:
Total Well Depth: Initial: 135' Final: 135'
Date and Time: Begin: 10-3-99 19:45 Completed: 16:15 10-3-99
Development: Method(s): SULMERS IBUE PUMP
Total Quantity of Water Removed: PUMPED 165 GALS gals
BAILED 100 GALS (DONE AT PREVIOUS TIME)

Date/Time	Discharge Rate*		Remarks			
and Pump Setting	and Measurement Method	Temp (°C)	Specific Conductivity (umhos/cm)	pH (Standard Units)	Turbidity	(Including Sand Production)
10-3-99	1 12 GACIMIM	13.1		12.52	152.6	BAILING WAS DONE @ AN EARLIER DATE.
15:05	1/2 GALININ	14.9		11,35	117.8	- SPECIFIC
15125	1/2 68 1.1	14.1		8.98	9,31	COUD. BATTERY
1	1/2 BPM	11.1		8.62	4.43	
	11/2 GPM 11/2 GPM	13.4 14.4		8,42	2.95	
16:13	1/2 011	1 6 1		0,11	2,0 φ	
		,				
		.*				

*gallons per minute or bailer capacity



(Field Sheet)

Project Name and Number: TEA0-5	01-0827-03-6523-021
	SWMUID (PURGE)
Development Crew: MARICMCGUIRE PRIDE	POUDriller (if applicable): DAU PLOTIS
	Pumping: 112. Final: 118
Total Well Depth: Initial:/35 ′	
Date and Time: Begin: 10/22/94 09	215 Completed: 10/22/94 1020
Development: Method(s): 4 GRUNDAS 16	E SUBMERSIBLE PUMP
Total Quantity of Water Removed	1: 165 145 gals

Date/Time	Discharge Rate*		Field Mea	surements		Remarks
and Pump Setting	and Measurement Method	Temp (°C)	Specific Conductivity (umhos/cm)	pH (Standard Units)	Turbidity	(Including Sand Production)
10/22	PUMP					WATER 15
9:17	1.5 GPM	11.8	261×10	11.98	52.1	CLOUDY, WHITE
9:37	1.5 GPM	13.1	73 ×10	10.97	6.51	MUCH CLEACER,
9:17	1.5 GPM	13.7	59 ×10	10.51	2.55	FLOCS
10:02	1.596M 1.56PM ≤TOPPED F	13.6 13.4 Durpinb,	58×10 57×10	10.07 10.10 F 145	3.51 3.41 6ALLON	S Dunded
10:10	BEGAN P.	mPING	47 28	GAL, PE	72 MINU	TE
10	FOR EXTR		1	l		1 _
10:17	1.5 GPM	14.7	59 X10	9.57	3.01	
DRum =	#S PSW197	42850	1,502,5	03		

*gallons per minute or bailer capacity



Sampling Form (Field Sheet)

Project Name and Number:	0-5 01-0	OX 1 03 03	5 1 5 1 1 1		
Sampling Crew: MARK MCGUI					
Sampling Point Number: S-1/3-					
Sampling Location: SWMU 13					
			По:		
Sample Type: 🛛 GW 🔲 S		_	☐ Other:		
Date and Time Sample Collected: _	10/22/94	-0917 12	10		
Weather Conditions: SUNNY	50°F		.		
Purging Information (if applicable):				•	
Method: 4" GRUNDFOS	IGE SUBMI	ERSIBLE PUM	PP		
Quantity of Water Purged:	165 GAL				
Disposition of Purge Water:	WATER 15 S	SCIGHTLY CLO	UDY WYERY	SMALL FL	OC 5
AND SOME PRODUCT	FLOATING	ON TOP	, , , , , , , , , , , , , , , , , , , ,		
Date and Time of Purging: St	art: 10/22/94	0915 End	d: <u>10/22/94</u>	1020	
Comments: FIELD MEAS	URMENTS TAKE	N DURING	PURGING.		
@ 10:17 1.5 GPM P	H: 9.5 T TEMP	(°C): 14.7° CC	hos/cm	URBIDITY: S	.DI 10
		Ac	103/CM		
Groundwater:					
Groundwater: Date and Time Collected: //	10/22/24 1	110			
Date and Time Collected:/ Sampling Depth: 409.90	, <u> </u>			·	
Date and Time Collected:	ATER LEVEL =	109.98' το	C (TOP OF C	ASING)	
Date and Time Collected:/ Sampling Depth: /09.98 Water Level:/ <i>UITIAL_Wi</i> Sampling Method/Equipment:	ATER LEVEL =	109.98' TO	STEEL RAILD	e.	
Date and Time Collected:	ATER LEVEL =	109.98 TO 5TAINLESS Cond:	STEEL RAILD	e.	
Date and Time Collected:	Temp:	109.98 TO STAINLESS Cond:	CTEEL RAILO Alkalinity:	· R	
Date and Time Collected:	Temp:	109.98 TO STAINLESS Cond:	CTEEL RAILO Alkalinity:	· R	
Date and Time Collected:	Temp:	109.98 TO STAINLESS Cond:	CTEEL RAILO Alkalinity:	· R	
Date and Time Collected:	Temp:	109.98 TO STAINLESS Cond:	CTEEL RAILO Alkalinity:	· R	
Date and Time Collected:	Temp:	109.98 TO STAINLESS Cond:	CTEEL RAILO Alkalinity:	· R	
Date and Time Collected:	Temp:	109.98 TO STAIWLESS Cond: TAKEN DURIN	STEEL RAILO L. Alkalinity:	· · · · · · · · · · · · · · · · · · ·	
Date and Time Collected:	Temp: ASUREMENTS 7	109.98 TO STAIWLESS Cond:	STEEL RAILO L. Alkalinity: 6 PURGING	· R	
Date and Time Collected:	Temp:	109.98 TO STAIWLESS Cond: TAKEN DURIN	STEEL RAILO LE Alkalinity: 6 PURGING	· R	
Date and Time Collected:	Temp:	109.98 TO STAIWLESS Cond: TAKEN DURIN	STEEL RAILO LE Alkalinity: 6 PURGING	· R	
Date and Time Collected:	Temp: Slicable): Dicable): Temp:	/09.98 TO STAIWLESS Cond: COND: COND:	STEEL RAILO LE Alkalinity: 6 PURGING	· R	
Date and Time Collected:	Temp: Slicable): Dicable): Temp:	/09.98 TO STAIWLESS Cond: COND: COND:	STEEL RAILO LE Alkalinity: 6 PURGING	· R	
Date and Time Collected:	Temp: Slicable): Dicable): Temp:	/09.98 TO STAIWLESS Cond: COND: COND:	STEEL RAILO LE Alkalinity: 6 PURGING	· R	
Date and Time Collected:	Temp: dicable): Dicable): Temp:	109.98 TO STAIWLESS Cond: CONDIN	STEEL RAILO Alkalinity: Alkalinity: Turbidity:	· R	
Date and Time Collected:	Temp:	109.98 TO STAINLESS Cond: Cond: Cond:	STEEL RAILO Alkalinity: Alkalinity: Turbidity:	· R	
Date and Time Collected:	Temp:	109.98 TO STAIWLESS Cond: Cond: Cond:	STEEL RAILO Alkalinity: Alkalinity: Turbidity:	· R	
Date and Time Collected:	Temp:	109.98 TO STAIWLESS Cond: Cond: Cond:	STEEL RAILO Alkalinity: 6 PURGING Turbidity:		



Sampling Form

(Field Sheet)

Project Name and Number:	ele South RFI 01-0827-03-6523-025
Sampling Crew: T. Carter	, J. SKIBINSKE, J. PENDLETON
Sampling Point Number: 5-113	
Sampling Location: 51.1911	19 South OF Building 526
Sampling Location.	19 South OF Building 536
Sample Type: 💆 GW 🔲 S	
Date and Time Sample Collected: 🔟	127/95 1310
Weather Conditions: Partly C.	loudy & Electing Temp 30's, Wind 2-3 mph:
Purging Information (if applicable):	
Method: 4" Grun	dFos Submensible Pump
Quantity of Water Purged:	75 gallens
Disposition of Purge Water:	-/ele r
	1 1/2 5 1/22 120
Date and Time of Purging: Sta	art: 1/27/95 1/35 End: 1/27/95 1238
Comments.	
,	
Sampling Depth: 109/6.5 Water Level: 109/6.5 Sampling Method/Equipment: Field Measurements: pH/0.0	PVC Bayler (Dedicated) 62 Temp: 9°C Cond: 55 unikes (mAlkalinity:
Sampling Depth: 109/65 Water Level: 109/65 Sampling Method/Equipment: Field Measurements: pH/04 Date and Time Filtered (if appl	BTOC BTOC PVC Bayler (Dedicated) 62 Temp: 9°C Cond:55 united (Conditional Mallinity) licable): NA
Sampling Depth: 109/165 Water Level: 109/165 Sampling Method/Equipment: Field Measurements: pH/01 Date and Time Filtered (if appl Comments:	BTOC BTOC PVC Bayler (Dedicated) 62 Temp: 9°C Cond:55 unikes MAlkalinity:
Sampling Depth: 109/16.5 Water Level: 109/16.5 Sampling Method/Equipment: Field Measurements: pH/0.0 Date and Time Filtered (if appl Comments: Surface Water: Date and Time Collected:	BTOC BTOC PVC Bayler (Dedicated) 62 Temp: 9°C Cond:55°UM Medinity: licable): NA
Sampling Depth:	BTOC BTOC PVC Bayler (Dedicated) 62 Temp: 9°C Cond:55 unikes MAlkalinity:
Sampling Depth:	BTOC BYC Bailer (Dedicated) 62 Temp: 9°C Cond:55 wm/ks/cmAlkalinity: licable): NA
Sampling Depth:	Isroc BTOC PVC Bayler (Dedicated) 62 Temp: 9°C Cond: 55° UM Halinity: licable):
Sampling Depth:	Isroc BTOC PVC Bayler (Dedicated) 62 Temp: 9°C Cond: 55° UM Halinity: licable):
Sampling Depth: 109/165 Water Level: 109/165 Sampling Method/Equipment: Field Measurements: pH/0.0 Date and Time Filtered (if application Comments: Surface Water: Date and Time Collected: Collection Method: Date and Time Filtered (if application Measurements: pH Comments: Soils/Sediment Sampling: Date and Time Collected: Collected: Comments:	Isroc BTOC PVC Bayler (Dedicated) 62 Temp: Cond: 55 white can alkalinity: licable): Cond: Turbidity:
Sampling Depth:	PVC Bayler (Dedicated) 22 Temp: 9°C Cond: 55° UM Mass (CMA) (MA) licable):
Sampling Depth: 109/165 Water Level: 109/165 Sampling Method/Equipment: Field Measurements: pH/0.0 Date and Time Filtered (if application Comments: Surface Water: Date and Time Collected: Collection Method: Date and Time Filtered (if application Measurements: pH Comments: Soils/Sediment Sampling: Date and Time Collected: Collected: Comments:	BTOC PVC Bayler (Dedicated) 22 Temp: 9°C Cond: 55° whites/cmAlkalinity: licable : NA licable : Cond: Turbidity:



Well Purging/Sampling Form

(Field Sheet)

Page 1 of 1

Project Name and Number:	Deseret Chemical Depot 01-0827-03-6523						
Well Number and Location:	S-113-94 SWMU 19						
Sampling Crew:	John Carter, Knut Torgerson, Patrick Sorderburg						
Pump Depth/Total Depth (btd	oc): 125'						
Purging Method: Submersib	le Pump EPA Low Flov	v Method					
Quantity of Water Removed:	12 gal	Screen Length:					
Sample Number: S-113-94	(SAIC01, SAIC01D, SA	AIC01N, SAIC01ND)					
Date/Time 11/16/98	1300 - 1430						
Trip Blank Number: S-1	13-94 (SAICTB01)	Sampled by:					

FIELD MEASUREMENTS

Date/Time	Rate (GPM)	Volume (gais.)	Water Level (BTOC)	Temp (°C)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
11/16/98 1315	.25	4	106.87'	14.2	10.01	.660	317	7.55	116.4
11/16/98 1323	.25	6	106.87'	14.4	9.74	.709	18	7.46	148.1
11/16/98 1331	.25	8	106.87'	14.5	9.56	.706	0	7.43	165.3
11/16/98 1339	.25	10	106.87'	14.6	9.49	.707	0	7.41	175.5
11/16/98 1347	.25	12	106.87'	14.7	9.47	.697	0	7.47	178.1
		-							
-									

GPM = Gallons per Minute LPM = Liters per Minute BTOC = Below Top of Casing

Comments: Equipment Rinsate = S-113-94 (SAICRB01) @1150

Form Completed by: Ty Grivat

One well volume = $(H \times W) + \{0.33[(SH \times B) - (SH \times W)]\}$ Where: H = water column, W = well multiplier (2" = 0.16, 4" = 0.65), SH = screen height, B = borehole diameter multiplier (for 6" = 1.47, 8" = 2.61, 10" = 4.08, 12" = 5.89)

SWMU 19 MONITORING WELL S-114-94

				SOIL BORING/W	ELL I	LOG						:	
			-S Phase II RFI	Site Location: SWMU 19	_ M	Monitoring Well No.: S-114-94							
			-0827-03-6523					Start/Finish Date: 09-27-94/09-27-94					
									Well Completion Depth (ft): 135.0				
			vironmental Inc.	Groundwater Elev. (ft): 5121.96 on 10/22/94				Drilled Depth (ft); 135.0					
Driller:_				Drilling Method: Dual Wall Percusion				urface	Pad Ele	vation (ft): <u>52</u>	29.03	
Drill Rig	<u>; A.P.</u>	1000		Sampling Method: Split Spoon/Grab Samples				op of C	asing E	levation	(ft):	5230.81	
										W	ell Cons	t. As-Bui	lt
Depth (feet)	Soil Class USCS		Mater	ial Description	Sample ≢	Sample Type	(wdd) NNH	Steel Casing	T				
5		00000000000000000000000000000000000000	10YR7/3 pale brown; no apparent bedding 70% Gravel, 15% Sand, 10	Sand, 20% Silt, 5% Clay. plasticity; loose; dry; no 0% Silt, 5% Clay. 10YR7/3 pale						Steel	" Shedule 40 PVC Riser		5
10-	ec	ું	Sample Interval was 9.0 environment = Lake sed	•		NA.	1	G	0				-10
15-		0,00,00,00				* : 10.							- -15
1 1			• •	and. 10YR6/4 light yellowish			\dashv						[
20-			brown; high plasticity; s bedding. Sample Interv Depositional environmen		t1-1	15-15	2	SS	0		Riser	ut	- <u>2</u> (
25-	CL		Depositional environmen	t - Lake Sediment								ment/Bentonite Grout -	-21
30-	İ		Grab, Sample Interval w	as 29.0 to 29.5	, N	NA AP	3	G	0			_ Cem	-30
													<u> </u>
35-													-35
	ML		brown; no plasticity; loo bedding; Gravel sub-rol	X Silt; 10% Clay. 10 YR6/5 pale se; soft; dry; no apparent unded to angular; Sample									f
40-			Alluvial outwash	.5. Depositional environment =	<u> </u>	15-16	4	SS	0				-4
45-	CL												-41
50-				1	NA	5	G	0				50	
'	GC	1]			. •

•

				COTI DODTI 10 /1 :=:	1	_						
<u>.</u>		TEAD	-S Phase II RFI	SOIL BORING/WEI		Monitoring Well No.: S-114-94						
			-0827-03-6523	Site Location: SWMU 19 Northing (ft): 2219807.33					No.: <u> </u>		20-27-0	24
		ke Miles		Easting (ft): 428893.36								7-1
			nvironmental Inc.	Groundwater Elev. (ft): 5121.96 o	n 10/22/94	_	Well Completion Depth (ft): 135.0 Drilled Depth (ft): 135.0					
Drilling Driller:_			THE OTHER PROPERTY.	Drilling Method: Dual Wall Percusion	n		Surface Pad Elevation (ft): 5229.03					
Drill Rig				Sampling Method: Split Spoon/Gra	b Samples		Top of Casing Elevation (ft): 5230.81					
Dilli Ng	T			Sampling Method.	_	Well Const. As-Built						
Depth (feet)	Soil Class USCS		Mater	rial Description	Sample #	Sample Type	HNU (ppm)					
56-	GC	5000	Silt. dark grey limeston brown sandstones; poor angular; Sample Interva 60% Silty Clay, 40% Silt plasticity; hard; dense; bedding; Grab; Sample I	, 10YR5/3 brown; high stiff; moist; no apparent					-			-58
	•		was 69.0 to 69.5; Sampl		4-22-23	6	SS	0				
61-											ent/Bentonite Grout ————————————————————————————————————	-61 -66
1									<u> </u>			
					NA	7	G	0	}			+
71-									1	<u> </u>		71
1]		ļ	ise	io at	-
1 1	ML						İ			Ş 📓	te G	
76-										Shedule 40 PVC Riser —	<i>IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</i>	78
1 1										e 🛮	Ber 💹	
1 1				<u> </u>					4	Ped S	ent 🛮	
			Sample Interval was 79	t0 79.5	37/50/3	8	SS	0		4" S	Ceme	-
81-			brown; Mohr hardness =	ole Interval was 89 to 89.5;								-81 - -
86-												-86 -
1 1					NA	9	6	0	1			
91-						-			1			-91
1												
1 1			45% Clay, 45% Silt, 10%	Sand fine to very fine								- [
98-	CL		10YR5/3 brown; medium apparent bedding; some	plasticity; stiff; dense; moist no e iron staining in the Interval was 99.0 to 100.5;								-96
101					7-14-18	10	SS	0				
101-		====] -	⊥⊠∟		[10]

SAIC Project No.: 01-0827-03-6523 Northing (ft): 2219807.33 Start/Fine Geologist: Mike Miles Easting (ft): 428893.36 Well Comp Drilling Co.: Layne Environmental Inc. Groundwater Elev. (ft): 5121.96 on 10/22/94 Drilled De Driller: Kevin Cross Drilling Method: Dual Wall Percusion Surface P					
Geologist: Mike Miles	Monitoring Well No.: S-114-94				
Drilling Co.: Layne Environmental Inc. Driller: Kevin Cross Drilling Method: Dual Wall Percusion Sampling Method: Split Spoon/Grab Samples Top of Ca Soil Class USCS USCS USCS USCS USCS USCS USCS US	Start/Finish Date: 09-27-94/09-27-94				
Driller: Kevin Cross Drill Rig: A.P. 1000 Sampling Method: Split Spoon/Grab Samples Top of Ca Soil Class USCS Tole Class USCS	Well Completion Depth (ft): 135.0				
Drill Rig: A.P. 1000 Sampling Method: Split Spoon/Grab Samples Top of Call Spoint Class USCS 11 00 00 00 00 00 00 00 00 00 00 00 00	Drilled Depth (ft); 135.0				
Material Description CL Soil S	Surface Pad Elevation (ft): 5229.03				
CL ====================================	asing Elevation (ft): 5230.81 Well Const. As-Bullt				
CL ====================================					
60 %Silt, 25% Clay, 15% Sand. 10YR5/3 brown, medium dense; moist; no apparent bedding; some black material in microfractures. Sample Sample Interval was 109.0 to 110.5; Depositional environment = Lake Lake sediment SP SP	HNU (ppm)				
dense; moist; no apparent bedding; some black material in microfractures. Sample Sample Interval was 109.0 to 110.5; Depositional environment = Lake Lake sediment SP	PVC Riser ————————————————————————————————————				
was 109.0 to 110.5; Depositional environment = Lake Lake sediment SP	gent l				
117- SP	O Rise				
	5creen 4" Shedule 40 PVC Riser				
	Old Slot Schedule 40 PVC Screen 4" Shedu				
127- GC 100% Sand (fine to very fine grained). 10YR grayish black; moderate sorting; subangular to subrounded; 10-18-23 12 SS	#_ ### ### ######################				
132- CL ====================================	<u>↓</u> (3=3) ↓				
137 55% Clay, 35% Silt, 5% Sand. 10YR5/3 brown; high plasticity; stiff; dense; molst; no apparent bedding. Lake Sediment					
Bottom of Boring at 135.0 feet	i t				
NOTE:NR=Not Recorded, NA=Not Applicable Borehole Diameter=9.5"					
147-					

W[.I

ELL DRILLER'S REPORT

State of Utah Division of Water Rights

For additional space, use "Additional Well Data Form" and attach

					101	auu	ILLIC	1101	space	, uso (attivitat 170	II Data I V	IIII AIIG A	ttucii	
Well Ide										-002-		03				
Owner	Note a	P.	q.	Bo	X	13	03	A1		Depot						
					Contact Person/Engineer: John Pendleton											
Well Loc	ation	No	re an	y cha:	nges					ORIBEL PE	STBO	Mengineer.				
				H 1					_			feet fr			er of	
		SE	CT	ION	1	7,	T	OWN	SHI	P 68,	R	ANGE 4W	, SLBEM	•	<i>r</i>	
Location 1	Descrid	otion	: fad	dres	s. ond	oxim	itv t	o buil	din e s.	landmarks	ı, gr	ound elevation	n, locał well #)			
		=	-													-
Drillers Check all			5	tart l	Date	:		9-1	9-94			-	Completion	Date:	10-1-94	
New [ים	eeper	<u>ا</u>	АЬ	ando	n [Repla	ксе 🗌 Ри	blic	Nature of U	se:			
DEPTH	(feet) TO			REH						DRILLIN	Gλ	METHOD		D	RILLING FLUID	7 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
0	135	•			9		1	1	ercu	ssion	ha	mer			Air	•
												_				
Well Log			N.	P E	UNC	ONS	G C	DATE	DI CON	ISOLIDAT	ED					
DEPTH FROM	(feet) TO		i 	R M E A B L E	L A L	420	RABLES	BOULDER	RC	CK TYPI	2	COLOR			ONS AND REMA	
0	13	5			XX	þ	X	7								
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			₩	\dashv	+	+	+-	-	-		+					AA . / 1000 - 101 - 100 - 14
		\dashv	#-	H	+	+	+		 -		+					Martine can be so from Appenio a constant
		+	-		+	$\dagger \dagger$	+				\top					
		\dashv		†	1		+		 -	<u> </u>						** · · · ••
Static Wa	ater Lo	vel	Г						-							
Date			1	-28						Water L	eve		feet	Flowing?	K] Yes ↓}	No
Method Point to			ŀ				_		ver D	eferenced		If Flo	wing, Capped	d Pressure	P	SI
			l						•	ererenced and surface		fc	et Tempen	ature	_ □°C (⊒°F
 -			-			<u> </u>			<u> </u>		_					

Constructi	on Infor	nation	· · · · · · · · · · · · · · · · · · ·	. 6	_					
DEPTH	(feet)		CASING			DEPTH	(feet)	SCREEN	N X) PERF	ORATIONS []
FROM	TO		CASING TYPE AND MATIRIAL/CRADE	WALL THICK (in)	NOMINAL, DIAM. (in)	FROM	то	SLOT SIZE OR PERF SIZE (IN)	SCREEN DIAM. OR PERF LENGTH	SCREEN TYPE OR NUMBER PERF (Der round/interval)
0	125	Sch.			4	125	135	.010	+ · · · · · · · · · · · · · · · · ·	(Company Co
•								· · · · · · · · · · · · · · · · · · ·		
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				-	 	 				
. ==.	·: 	<u> </u>		<u></u>	<u> </u>	<u> </u>				
Well Hea	d Config	guration:	Above grade	<u> </u>		· · · · · · · · · · · · · · · · · · ·	Ac	cess Port Prov	vided? Il Yes	(J No
Casing J	oint Type		Flush threa	<u> </u>	_ Perforator	Used:		 -		
DEPTH	(feet)		MU	ER PACK	/GROUT / P	ACKER / A	BANDO	NMENT MAT	ERIAL	
FROM	סד	,	NNULAR MATERIAL. und/or PACK			RIAL		y of Material Used (applicable)		T DENSITY I mia. gal /sack etc.)
120	135		10-20 Sand					9	(TOPY SELECT CAR	totale Palitament Ares
115	120	Re-	ntonite seal.	nellet	· · · · · · · · · · · · · · · · · · ·			2		
0	115				,.					
U	113	2.0	rtland cement					32		शक्क करण्यक रह संख्याच्या का स्थापन
					·	 				
								 		
<u>.</u>										
	velopmen	ıt / Pumj	or Bail Tests							
								Units Check One	DRAWDOWN	TIME
Diale	2 -		Method			Y	ield	GPM CPS	<u>(ft)</u>	this & min
					* \					
								· .		
Pump (Pe	muneni)									
Pump D	escription	 1:		·	Horsey	ower:		Pump Intake	Depth:	feet
Approxi	mate max	cimum p	amping rate:		Well disir	fected upo	on comp	letion?	Yes 🗀 No	
Comment	n Desci	ription of	construction activity, a abandonment / proced	dditional m	sterials used,	problems	ncounter	ed. extraordinar	y	
	GITCUI	1124(412-02-	mounted proces	mer. Ort o	Ballionel Wel		jui muie	space.		
Well Dri	ller State	ment	This well was drilled o	r abandone	d under my su	pervision.	according	to applicable n	iles and regulation	is, and
Nume	Layr	ie Env	this report is complete ronmental Ser		io Jiisa sar cu	•	idge und l License i		626	
			on. Firm. or Corporation		pe)					
Signat	ure		(Licensed Well Dri	ller)	· · · · · · · · · · · · · · · · · · ·		Date_	10-18-	94	



(Field Sheet)

Project Name and N	mber TOOFLE - SOUTH 01-0827-03-6523-020
Well Number and Lo	ation: <u>MW 5-114-94</u>
Development Crew.	MARK MAGUIRE Driller (if applicable): DAN PLOTTS
Water Levels/Time:	Initial: 109.55 9:30 Pumping Final:
Total Well Depth:	Initial: 135' Final: 135'
Date and Time:	egin: 10-3-94 9! 30 Completed: 10:55 10/3/94
Development: M	thod(s): BAILING WITH 6 GAL. S.S. BAILER ? PUMPING
	. SUBMERSIBLE DUMP
То	al Quantity of Water Removed: 100 (BAILING) gals

Date/Time	Discharge Rate*		Field Meas	surements		Remarks (Including Sand Production)		
and Pump Setting	and Measurement Method	Temp (°C)	Specific Conductivity (umhos/cm)	pH (Standard Units)	Turbidity			
10-3 9:50	G GAL BAILOR	9.9		10.64		700 M.M.		
10:20		10,8		8.35	##37	MA, ZOD		
10:35		11,0		8.08	>200	SPECIFIC CONDUCTIVITY METER HAD A DEAD BATTERY		

*gallons per minute or bailer capacity

White: File Pink: Field Manager Yell

Yellow: Supervisory Geologist

Goldenrod: Field Book



(Field Sheet)

Project Name and	l Number:	TOOELE	sou	TH	01-082	7-03-	-6523-020
Well Number and	Location:	MW-	S - 11	- 94		· · · · · · · · · · · · · · · · · · ·	
Development Crev					(if applicable):	OAN	PLOTTS
Water Levels/Tim	e: Initia	ıl:	Pı	umping:		Final:	:
Total Well Depth:	Initia	al: <u>135'</u>	Fi	nal:	135'	-	
Date and Time:	Begin: _	10-3-94	12:00	<u> </u>	Completed:	1:30	10-3-99
Development:	Method(s)	: SUBMERS	IBLE I	PUMP	9" GRUNG	FOS	
		·					
	Total Qua	ntity of Water F	Removed:	100 (BAILING) T	110 PUM	LANG = ZID LANG = TOTAKgals

Remarks		
uding and uction)		
TC TIVITY BATTER) 4D.		
FLOW ASILY		
JARLE.		

*gallons per minute or bailer capacity



(Field Sheet)

Project Name and Number: TEAD-5 01-0827-07-6577-021
Well Number and Location: S-1/4-99 SWMO19
Development Crew: MARK M COURE PENDLETON Driller (if applicable): DAN PLOTTS
Water Levels/Time: Initial: 109.85 Pumping: 12 Final: 12
Total Well Depth: Initial: 135 Final: 135
Date and Time: Begin: 10/22/99 13:15 Completed: 10/22/94 1420
Development: Method(s): 4" SUBMERSIGLE SUMP WITH DATA LOGGETS
(HO MENSURFMENT OF FLOW PLATE WI FLOW METER AT WELL HEAD
Total Quantity of Water Removed: 85 GALS gals

Date/Time	Discharge Rate*		Field Measurements					
and Pump Setting	and Measurement Method	Temp (°C)	Specific Conductivity (umhos/cm)	pH (Standard Units)	Turbidity (NTV)	(Including Sand Production)		
10/22/99								
13:25	1.59 GPM	11.8	/18X10	11.53	79.8	VERY TURBID BUT NO SILTS.		
13:40	1.59 GPM	16.0	70 X10	9,7,9	3.09			
13:55	1.23 GPM	15.8	71 X10	8.59	0.58			
10	1.236PM	15-0	70 X 10	8,40	0.18			
1413	1,23 GPM	14.9	70 ×10	8 , 38	0.16			
1415	1,236Pm	15.0	70×10	8.41	0.16			
1420	STOP POMP	NO ACTI	v;rr≀€S					
PUMP 1	NTAILE SET	4T 127	B70C					
DATA L	DEFT SET	AT 125	B70C					

*gallons per minute or bailer capacity

White: File Pink: Field Manager

Yellow: Supervisory Geologist Goldenrod: Field Book



Sampling Form (Field Sheet)

Project Name and Number:	10-5		·		
Sampling Crew: MARK MCGUIN		PENOLETO	DU		
sampling Point Number:					
Sampling Location: SWMU 19					
Sample Type: 🛛 GW 🔲 SW	-	SED			
Date and Time Sample Collected:	•	1592			
Veather Conditions: <u>SUNNY</u> 5	10°F.				
	•				
Purging Information (if applicable):					
Method: 4" GRUNDFO	S IGE SUBA	LERSIBLE PUL	UP		
Quantity of Water Purged:	35 GAL				
Disposition of Purge Water:	CLEAR WATER	W/SOME	PRODUCT	FLOATING (<u> </u>
TOP.	1 /2				
Date and Time of Purging: Star	t: 10/22/94	13/5 En		29 1920	
Comments: FIELD MEASUR @ 1115 1,23 GPM pH					41+13
@ 1713 1,23GFM PH	· O.TI TEME.	15,0 0000.	AMHOS/CM	I DICTUDITY: 0,16	NIU
Date and Time Collected:	TR SURFACE STAWL	LESS STEEL	BAILDR.		
Date and Time Collected: 10 Sampling Depth:	TR SURFACE STAWC Temp: cable): NA	<u>LEVE</u>	BAILDR .	linity:	
Date and Time Collected:	TR SURFACE STAWC Temp: cable): NA	<u>LEVE</u>	BAILDR .	linity:	
Date and Time Collected:	TR SURFACE STAWC Temp: Cable): NA DEMENTS TAK	LEVEL = 10 LESS STEEL Cond:	BAILDR . Alkal	linity:	
Date and Time Collected: 10 Sampling Depth: Water Level: 1017/AL WAT Sampling Method/Equipment: Field Measurements: pH Date and Time Filtered (if applie Comments: FIELD MEASURE Surface Water: NA	TR SURFACE STAWA Temp: cable): NA DEMENTS TAK	LEVEL = 10 LESS STEEL Cond:	BAILDR. Alkal	linity:	
Date and Time Collected:	TR SURFACE STAWC Temp: Cable): NA VEMENTS TAKE Cable):	LEVEL = 10 LESS STEEL Cond:	BAILDR. Alkal	inity:	
Date and Time Collected:	TR SURFACE STAWC Temp: Cable): NA CEMENTS TAKE Cable): Temp: Temp:	LEVEL = 10 LESS STEEL Cond: CONDING	BAILDR. Alkal F PURGING	rbidity:	
Date and Time Collected:	TR SURFACE STAWC Temp: Cable): NA CEMENTS TAKE Cable): Temp: Temp:	LEVEL = 10 LESS STEEL Cond: CONDING	BAILDR. Alkal F PURGING	rbidity:	
Date and Time Collected:	TR SURFACE STAWC Temp: Cable): NA CEMENTS TAKE Cable): Temp: Temp:	LEVEL = 10 LESS STEEL Cond: CONDING	BAILDR. Alkal F PURGING	rbidity:	
Date and Time Collected:	TR SURFACE STAWC Temp: Cable): NA CEMENTS TAKE Cable): Temp: Temp:	LEVEL = 10 LESS STEEL Cond: CONDING	BAILDR. Alkal F PURGING	rbidity:	
Date and Time Collected:	TER SURFACE STAWA Temp: cable): NA DEMENTS TAK cable): Temp:	COND:COND:	BAILDR. Alkal F PURGING Tu	rbidity:	
Date and Time Collected:	TR SURFACE STAWC Temp: Cable): NA CEMENTS TAK Cable): Temp: Temp:	LEVEL = 10 LESS STEEL Cond: CEN DURING	BAILDR. Alkal F PURGING Tu	rbidity:	
Sampling Depth: Water Level:	TER SURFACE STAWLE Temp: Cable): NA DEMENTS TAKE Cable): Temp: Temp:	LEVEL = 10 LESS STEEL Cond: CEN DURING	BAILOR. Alkal F PURGING Tu	rbidity:	



Sampling Form (Field Sheet)

Project Name and Number: TOOELE South REI 01-0	827-03-6523-025
Sampling Crew: T. Carter J. SKIBINSKI J	
Sampling Location: Sulmula 19 Sampling Location:	
Sampling Location: Swmu-19, South of Building	336
· · ·	ner:
Date and Time Sample Collected: 1/28/95 11.50	
Weather Conditions: Suwy 35°F	
Purging Information (if applicable):	
Method: 3 78" Submers, ble Pump (Grand FOS)
Quantity of Water Purged: 85 gallow S Disposition of Purge Water: Clear	
Disposition of Purge Water: Clear	
	
Date and Time of Purging: Start: 1/28/95 0924 End: 1/	128/95 1055
Comments:	
	
Groundwater:	
Date and Time Collected: 1/2 9 /9 C //, C C	
Date and Time Collected: 1/2 8 /95 //: 50	
Sampling Depth: /22' BTOC	
Sampling Depth: /22' BTOC	
Sampling Depth: /22' BTOC	
Sampling Depth: /22' BTOC Water Level: /09,2/' BTOC Sampling Method/Equipment: Dedicated PVC Bailer Field Measurements: pH 7.62 Temp: 13°C Cond:58 CM H05/CM	•Alkalinity:
Sampling Depth: /22' BToC	•Alkalinity:
Sampling Depth: /22' BTOC Water Level: /09, 2/' BTOC Sampling Method/Equipment: Dedicated PVC Bailer Field Measurements: pH 7.62 Temp: /3°C Cond:58 Date and Time Filtered (if applicable):	•Alkalinity:
Sampling Depth: /22' BTOC Water Level: /09, 2/' BTOC Sampling Method/Equipment: Dedicated PVC Bailer Field Measurements: pH 7.62 Temp: /3°C Cond:58 Date and Time Filtered (if applicable):	Alkalinity:
Sampling Depth: /22' BTOC Water Level: /09, 2/' BTOC Sampling Method/Equipment: Dedicated PVC Bailer Field Measurements: pH 7.62 Temp: /3°C Cond:58 Date and Time Filtered (if applicable):	Alkalinity:
Sampling Depth: /22' BTOC Water Level: /09,2/' BTOC Sampling Method/Equipment: Dedicated PVC Bailer Field Measurements: pH 7.62 Temp: /3°C Cond:58 CM HOS CM Date and Time Filtered (if applicable): Comments: Surface Water:	•Alkalinity:
Sampling Depth: /22' BTOC Water Level: /09, 2/' BTOC Sampling Method/Equipment: Dedicated PVC Bailer Field Measurements: pH 7.62 Temp: /3°C Cond:58 GM H05/GM Date and Time Filtered (if applicable): Comments: Surface Water: Date and Time Collected:	nAlkalinity:
Sampling Depth: /22' BTOC Water Level: /09, 2/' BTOC Sampling Method/Equipment: Dedicated PVC Bailer Field Measurements: pH 7.62 Temp: /3°C Cond:58 Depth 100 Comments: Comments: Surface Water: Date and Time Collected: Collection Method: Date and Time Filtered (if applicable):	*Alkalinity:
Sampling Depth: /22' BTOC Water Level: /09, 2/' BTOC Sampling Method/Equipment: Dedicated PVC Builer Field Measurements: pH 7.62 Temp: /3°C Cond:58 bm HoS/ Date and Time Filtered (if applicable): Comments: Surface Water: Date and Time Collected: Collection Method:	*Alkalinity:
Sampling Depth: /22' BTOC Water Level: /09, 2/' BTOC Sampling Method/Equipment: Dedicated PVC Bailer Field Measurements: pH 7.62 Temp: /3°C Cond:58 Depth 100 Comments: Comments: Surface Water: Date and Time Collected: Collection Method: Date and Time Filtered (if applicable):	*Alkalinity:
Sampling Depth: /22 BTOC Water Level: /09, 2/ BTOC Sampling Method/Equipment: Dedicated PVC Bai/Ex Field Measurements: pH 7.62 Temp: /3°C Cond:58 bm HoS/ Date and Time Filtered (if applicable): Comments: Surface Water: Date and Time Collected: Collection Method: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond:	*Alkalinity:
Sampling Depth: /22 BTOC Water Level: /09, 2/ BTOC Sampling Method/Equipment: Dedicated PVC Bai/Ex Field Measurements: pH 7.62 Temp: /3°C Cond:58 bm HoS/ Date and Time Filtered (if applicable): Comments: Surface Water: Date and Time Collected: Collection Method: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond:	*Alkalinity:
Sampling Depth: /22 BTOC Water Level: /09, 2/ BTOC Sampling Method/Equipment: Dedicated PVC Bailer Field Measurements: pH 7.62 Temp: /3°C Cond:58 Dem Hos for the second secon	Turbidity:
Sampling Depth: /22' BTOC Water Level: /09, 2/' BTOC Sampling Method/Equipment: Dedicated PVC Bailer Field Measurements: pH 7.62 Temp: /3°C Cond:58 Dem Hos for the second	Turbidity:
Sampling Depth: /22' BTOC Water Level: /07,2/' BTOC Sampling Method/Equipment: Ded, anded PVC Bailer Field Measurements: pH 2.62 Temp: /3 °C Cond:58 tom HeS/ Date and Time Filtered (if applicable): Comments: Surface Water: Date and Time Collected: Collection Method: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond: Comments: Solls/Sediment Sampling: Date and Time Collected: Sampling Depth: Sampling Method:	Turbidity:
Sampling Depth: /22 ' BTOC Water Level: /09, 2/ ' BTOC Sampling Method/Equipment: Dedicated PVC Bailer Field Measurements: pH 2.62 Temp: /3 ° C Cond: 58 Dem HoS / Comments: Date and Time Filtered (if applicable): Comments: Surface Water: Date and Time Collected: Collection Method: Date and Time Filtered (if applicable): Field Measurements: pH Temp: Cond: Comments: Solls/Sediment Sampling: Date and Time Collected: Sampling Depth:	Malinity:



Well Purging/Sampling Form (Field Sheet)

Page 1 of 1

Project Name and Number:	Deseret Chemical	Depot 01-0827-03-6523						
Well Number and Location:	S-114-94 SWMU	J 19						
Sampling Crew:	John Carter, Knut	John Carter, Knut Torgerson, Patrick Sorderburg						
Pump Depth/Total Depth (b	toc): 130'/138'							
Purging Method: Submers	ible Pump EPA Low	Flow Method						
Quantity of Water Removed	: 13 gal	Screen Length:						
Sample Number: S-114-94	(SAIC01)							
Date/Time 11/16/98	1515 - 1645							
Trip Blank Number: SA	AICTB01	Sampled by:						

FIELD MEASUREMENTS

Date/Time	Rate (GPM)	Volume (gals.)	Water Level (BTOC)	Temp (°C)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
11/16/98 1527	.25	3	105.42'	12.4	11.96	.759	0	7.54	227.5
11/16/98 1535	.25	5	105.42'	13.1	11.66	.679	0	7.61	194.3
11/16/98 1543	.25	7	105.42'	13.3	9.67	.677	0	7.73	235.4
11/16/98 1551	.25	9	105.42'	13.2	9.20	.693	0	7.84	240.1
11/16/98 1559	.25	11	105.42'	13.1	9.15	.701	0	7.89	242.8
11/16/98 1607	.25	13	105.42'	13.0	9.11	.699	0	7.95	239.5
<u> </u>									
-									
				•	· · · · · · · · · · · · · · · · · · ·				

GPM = Gallons per Minute	LPM = Liters per Minute	BTOC = Below Top of Casing
Comments:		
· · · · · · · · · · · · · · · · · · ·		
Form Completed by: Ty	Grivat	

One well volume = $(H \times W) + \{0.33[(SH \times B) - (SH \times W)]\}$ Where: H = water column, W = well multiplier (2^n = 0.16, 4^n = 0.65), SH = screen height, B = borehole diameter multiplier (for 6^n = 1.47, 8^n = 2.61, 10^n = 4.08, 12^n = 5.89)

SWMU 19 MONITORING WELL S-115-94

SAIC Pi Seologi Drilling	ling Co.: Layne Environmental Inc.		Miles Easting (ft): 2219830.58 Miles Easting (ft): 428867.18 Groundwater Elev. (ft): 5232.66 on 09/29/94				Start/Fi Well Com	nish Dat pletion [No.: S-115-94 hte: 09-29-94/09-29-94 Depth (ft): 138.5 ft); 139.0)4
		Cross		Drilling Method: Dual Wall Percussi				Pad Ele				<u>.</u>
Orill Rig	Prill Rig: A.P. 1000			Sampling Method: Split Spoon/Gr	ab T		Top of (Casing E				
Depth (feet)	Soil Class USCS	응 슅	Mate	erial Description	Blows/6 in.	Sample #	Sample Type	HNU (ppm)			t. As-Buil	
5-	SP	200	medium to coarse grain poorly sorted intermixe 7.5YR3/1 and light brow Gravels are 0.25-1.5" ii	20% Silt, 15% Clay. Sands ned, subrounded to subangular, ed with very dark gray limestone on sandstones 7.5YR6/3. In size, dry sub-rounded to c. Depositional environment =					Steel Casing	The dule 40 PVC Riser	***************************************	-
		800		10% Silt, 10% Clay. Very dark e 0.5-4" in size; looase ;dry; no		<u> </u>						}
0-		8		nds are medium to coarse nd poorly sorted. Sample	NA .	1	G	0				-
5-	GC	000000	· ·	0 to 10.5 and was collected ositional environment = Alluvial							IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	• • • •
) -		000			50/5	2	ss	0				-
5-	CL									עט גע	Cement/Bentonite Grout	
5-			Sample Interval was 29	0.0 to 30.5	15-23-27	3	SS	0			3	ļ
5-			·									} - - -
	GC		85% Gravel, 15% Sand. limestone and sandstor	Gravel consisting of intermixed ne; 0.25-1.25" in size,	NA	4	G	0				[
)-]			sub-rounded to angula	r; poorly sorted; Sample 7.5. Depositional environment =	7-14-19	5	SS	0				-
5-	CL	00	dense; high plasticity; of defined contact between	SYR5/3 light olive brown; stiff; no apparent bedding. clearly en this clay and the gravel e Interval was 39.0 to 40.5.	-							- - - -
.]	GC	000	85% Gravel, 10% Sand, and sandstones; 0.25-	5% Silt. Intermixed limestones 1.25" in size; sub-rounded to Sample Interval was 49.0 to	50/6	8	SS	0				ŀ

				SOIL BORING/WE	LL LO	}					7.32	
Pro jec	t Name:	TEAD	-S Phase II RFI	Site Location: SWMU 19				No.:_S-11				
			-0827-03-6523	Northing (ft): 2219830.58	~	_ :						
		ike Miles					Well Completion Depth (ft): 138.5					
			nvironmental Inc.	Groundwater Elev. (ft): 5232.66								
		Cross		Drilling Method: Dual Wall Percuss		Surface Pad Elevation (ft): 5232.66						
Drill Rig	g: A.P.	1000		Sampling Method: Split Spoon/Grab			Top of Casing Elevation (ft): 5230.79					
į .					1	Sample Const. As-Built						
Depth (feet)	Soil Class USCS	응줱	Mater	Material Description				HNU (ppm)				
	GC	0000			50/6	6	SS	0	-			
55-	CL			R5/3 light olive; brown; stiff; city; no apparent bedding								- -55
	GC	0000	limestones and sandstor	0% Silt, 10% Clay, Intermixed nes; 0.5-1.5"in size; subrounded d. Sample Interval was 59.0 to					<u> </u>			
60-	60	000	59.5 Depositional enviro	nment = Alluvial outwash	NA	7	G	0				-60
e5-	CL			R5/3 light olive brown; stiff; city; no apparent bedding. ts = Lake sediments		:			:	Shedule 40 PVC Riser THIRTITITITITITITITITITITITITITITITITITI		- 85
	GC	000	and sandstones, 0.25 to	0% Clays, Intermixed limestone 0.1.25" in size, subrounded to Depositional environment =		i		•				
70-			Alluvial outwash		10-30-25	8	SS	0	1			70
			•	Sand, 25% Clay. 10YR4/3 ; low plasticity; no apparent			-		1	iser	rout	
1				ning in microfratures. Sample .5. Depositional environments						Shedule 40 PVC Riser	ent/Bentonite Grout	}
75-			= Lake sediments		1					₹ ()	a di di	75
										e dute	Ę/B	
										#S	Сеше	}
80-										7	٥	80
	ML							!				
	''-											[]
-												.
85-												-85
			ADM EIIT 308 OF 1 408 4	Cand 10VD9 / 4 tiple 1 - tiple	-							+ 1
]			brown; dense; moderate	Sand. 10YR8/4 light yellow ly cemented; partially		<u> </u>						
90-				siltstone. Sample Interval was	50/6	8	ss	٥				-90
			89.0 to 90.5									†
]												
OF !					J							إرا
95-			70% Clay, 30% Silt. 5YR		-							-95 -
	CL	====	dense; moist; high plastic Sample Interval was 99.	city; no apparent bedding. O to 100.5. Depositional								į
			environments = Lake sec		NA .	10	G	0				[]
100					114	10		-	_	T 88783	I	40
												ı

Project Name: TEAD-S Phase II RF1 SAIC Project No.: 01-0827-03-6523 Geologist: Mike Miles Drilling Co.: Layne Environmental Inc.			0827-03-6523	Site Location: SWMU 19 Northing (ft): 2219830.58 Easting (ft): 428867.18	_	Well Completion Depth (ft): 138.5								
	Kevin		VIII OTHER CITE OF THE	Drilling Method: Dual Wall Per	Groundwater Elev. (ft): 5232.66 on 09/29/94 Drilling Method: Dual Wall Percussion				Drilled Depth (ft); 139.0 Surface Pad Elevation (ft): 5232.66					
	j; A.P.										5230.79			
	T	1						<u> </u>		Vell Const. As-Built				
Depth (feet)	Soil Class USCS		Mate	rial Description	Blows/6 In.	Sample #	Sample Type	HNU (ppm)						
05-					NA	10	G	0	-		Cement/Bentonite Grout			
10-			Sample Interval was 109	9 to 109.5	10-16-22	11	SS	0		- G	'Bent			
15-	CL													
0-					NA	12	G	0) PVC Screen		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	5		
5-									ot Schedule 40	*	- Reptopite	פוינסוווע		
30-		ज़िल ्ल	80% Gravel, 15% Sand, 6	% Silt. Intermixed limestone	18-50/5	13	SS	0	.010 Slot		er Pack			
	GC	000 000 0000		nded to angular; poorly sorted. B.O to 130.5 Depositional utwash					 		Sand Filter			
15-	ML			Sand, 110YR5/3 brown; dense; asticity; some oxidized nodules edding					-					
10-			Bottom of Boring at 138 NOTE:NR=Not Recorded Diameter=9.5"	9.0 feet d, NA=Not Applicable Borehole						نندا	<u> </u>			
15-														
50_														

WLI

YELL DRILLER'S REPORT

State of Utah Division of Water Rights

	<u> </u>	tional space, use "Addi		m" and attach
Well Identification	VITOR WELL	L: 94-15-002-M-0	2	
	0. Box 130			
MC	Lash, VA	12102		
		Contact Person/	Engineer: John	Pendleton
Wen cocutton	te any changes			CW Com
		leet EAST 2850 fo TOWNSHIP 65, RAI		
Location Description	(address, proximi	ty to buildings, landmarks, grou	nd elevation. local well #	
Drillers Activity	Start Date:	9-19-94	Completion	Date: 10-1-94
Check all that apply:			-	
X New [] Repair [ndon Replace Public	Nature of Use:	
DEPTH (feet) FROM TO	BOREHOLE DIAMETER (in)	DRILLING ME	THOD	DRILLING FLUID
0 138	9	Percussion hamm	er	Air
	TEN ATTACK	OLIDATED CONSOLIDATED		
	C S S G L L A R A L N A Y T D V	PIDIDITI I	COLOR	DESCRIPTIONS AND REMARKS
DEPTH (feet) FROM TO	i. R Hydr Inw		(incl	ude comments on water quality if known.)
0 138	والمراجعة المراجعة الأراج	x		**
-				
				and the state of t
Static Water Level				
	-29-94	Water Level_	132 feet	Flowing? X: Yes No
Method of Water	1	-	If Flowing, Cappe	d PressurePSI
		rement was Referenced	feet Temper	ature □°C □°F
tierBur or water r	area telefelle po	With those Broads series	ioo: ionipei	

10-18-94

Date

(Person, Pirm on Corporation - Printer Type)

(Licensed Well Driller)

Signature



(Field Sheet)

Project Name and Number: TOOELE - SOUTH 01-0827-03-6523-020
Well Number and Location: MW 5-115-94
Development Crew: MARIC MCGUIRE Driller (if applicable): OAU ROTTS
Water Levels/Time: Initial: 491-35 Pumping: Final: Final:
Total Well Depth: Initial: 137.0 Final: 137
Date and Time: Begin: 8:45 10/4/94 Completed: 9:40 10/4/94
Development: Method(s): BAILING W/GGAL BAILOR + PUNGING
W/JUBMERSIBLE PUMP.
Total Quantity of Water Removed: BAILED 55 GALS gals

Date/Time	Discharge Rate*		Field Meas	Remarks		
and Pump Setting	and Measurement Method	Temp (°C)	Specific Conductivity (umhos/cm)	pH (Standard Units)	Turbidity	(Including Sand Production)
8:50	G GAL BAILOR	11.7	208 × 10	11.72	7200	HIGH TURBIOUTY
, -	G GAL BAILOR	11.3	59 × 10	8.47	7 200	SICTY, SANOY DARK BROWN WATER.
						PRODUCT NOTICED IN WELL WATER, BROWN, CLOUDY LIQUID FLOATING ON TOP, LOOKS SIMILAR TO PRODUCT SEEN IN WELL S-114-99

*gallons per minute or bailer capacity



(Field Sheet)

roject Name and Number:	
Vell Number and Location: MW 5-115 - 94	
evelopment Crew: MARK MCGUIRE Driller (if applicable): OAN PCOTTS	
/ater Levels/Time: Initial: /////////////// Pumping: Final:	
otal Well Depth: Initial: 137. Final: 137	
ate and Time: Begin: 12.195 10-9-99 Completed: 1420 10/4/94	
evelopment: Method(s): SUBMERSIBLE FUMP 4" GRUNDFOS	
Total Quantity of Water Removed: SSBAILED + 115 GALS IUMAED gals	701

Field Measurements Date/Time Remarks Discharge Rate* and (Including pΗ Specific Pump Measurement Sand (Standard Temp (°C) Conductivity Turbidity Production) Setting Method (umhos/cm) Units) 10/4/94 9.58 7200 VERY SANDY 55 X 10 13.1 1 GPM DARK BROWN 12:50 8,50 4.82 WATER. 65×10 15.0 1 GPM 1:10 GOT TURBIDITY 1:30 | 1GPM | 15.1 | 67×10 | 8.49 | 2.58 BELOW 5 NTU'S SO WE INCEPTIED 1:50 16PM 15.5 69×10 8.42 1.68 PUMP RATE TO MEET OUR 2:10 21/2 GPM 13.6 69×10 8.68 43.2 VOLUME REQ.,

16PM 13.9 65×10 8.01 4.33 BUT TURB. INCREASED. 2:20 WENT BACK TO IGPM.

*gallons per minute or bailer capacity

2:10



Development:

Well Development Form

(Field Sheet)

Project Name and Number: 1540-5 01-0827-03-65-25-021
Well Number and Location: 5-115-94 SWMU 19
Development Crew: MARK MCWINE Driller (if applicable): DAN PLOTTS
Water Levels/Time: Initial: 1/1, 65 Pumping: \ZZ Final: \IZZ
Total Well Depth: Initial: 138 Final: 138
Date and Time: Begin: 10/22/94 17:20 Completed: 10/22/94 1820
1"
Development: Method(s): 7 SURMESTIFLE FUMY.

Total Quantity of Water Removed: 85 6465 gals

Date/Time -	Discharge Rate*		Field Mea	Remarks				
and Pump Setting	and Measurement Method	Temp (°C)	Specific Conductivity (umhos/cm)	pH (Standard Units)	Turbidity	(Including Sand Production)		
10/22/99	1,59GPM	144	(1)	0.10	A 40	CCEAR HZO, NO SIGN OF		
17:45	1.996PM				0.48	FRODUCT SMALL INCLE		
17:57	1.60 сем		63×10	7.75	0.38	IN TURBIOITY		
18:13	1.606PM	14.5	62×10	7.79	0.84			
1816 1816	1,60 GPM 1,60	14.4	62×10	7,78	0,75			
PUMP IN DATA LOG	TAKE SET A	T 127	870C					

*gallons per minute or bailer capacity



Sampling Form (Field Sheet)

Project Name and Number: TEAD - S	
Sampling Crew: JOHN PENDLE TON + MARK MCGUIRE	
Sampling Point Number: S-115-94	
Sampling Location: SWMU 19	
Date and Time Sample Collected: 10/22/99 1910	
Weather Conditions: SUNNY, 50°F	
Purging Information (if applicable):	
Method: 4" GRUNDFOS IGE SUBMERSIBLE PUMP	
Quantity of Water Purged: 85 GAL. Disposition of Purge Water: CLEAR WATER W NO SIGN OF PRODUCT.	
Disposition of Purge Water: CLEAR WATER WIND SIGN OF ROBOCT.	
Date and Time of Purging: Start: 10 22 94 /7:10 End: 10/22/94 1820	
Comments: FIELA MEASUREMENTS TAKEN DURING PURGING.	
@ 1819 160 RPM AH: 7.80 TEMP: 19.4°C CONO: G2XIO TURBIDITY: Q69	NTU
Amhos/cm	
Groundwater:	
Date and Time Collected: 10/22/99 1910	
Sampling Depth:	
Sampling Depth: Water Level: INTIAL NATER SURFACE ELENATION (II.GS' TOC	
Sampling Method/Equipment: STAINLESS STEEL BAILORS	
Field Measurements: pH Temp: Cond: Alkalinity:	
Date and Time Filtered (if applicable): <u>NA</u> Comments: FIELD MEASUREMENTS TAKEN DURING PURGING	
Comments: FIELD ME45 DEEMENTS TAKEN FOR 100 PORSING	
Surface Water:	
Date and Time Collected:	
Collection Method:	
Date and Time Filtered (if applicable):	
Field Measurements: pHTemp:Cond:Turbidity:	
Comments:	
Soils/Sediment Sampling:	
Date and Time Collected:	
Sampling Depth:	
Sampling Method:	
Comments:	



Sampling Form (Field Sheet).

Project Name and Number: 1005	LE South	KFI OI-	2061-05-6	5d5-045
	· .	,		
			16 521	
	,		7	
Date and Time Sample Collected:	1/28/95	16:30		
Method: 3 7/8 " Submers ble Pump (Grand Gos) Quantity of Water Purged: 90 gallen S Disposition of Purge Water: Clear Date and Time of Purging: Start: /3:40 //26/95 End: //28/95 /6:00 Comments: Date and Time Collected: //28/95 /6:30 Sampling Depth: /// BTOC Sampling Method/Equipment: Baller (PVC dedicated) Field Measurements: pH 7/6 Temp: 10°C Cond: 30 umbes Alkalinity: Date and Time Filtered (if applicable): NA Comments: Surface Water: Date and Time Collected:				
Purging Information (if applicable): Method: 3 7/6 11 c Quantity of Water Purged: Disposition of Purge Water:	Submersible 90 gallon Clear	Pump s	(Grund	1605)
			1/28/95	16:00
Date and Time Collected:	BTOL			
Date and Time Collected: Sampling Depth: Water Level: Sampling Method/Equipment: Field Measurements: pH Date and Time Filtered (if app	BTO C BTO C Bq./eR (C Temp: 10°C Discable): NA	PVC, de dica Cond: 30 um	fed)	
Date and Time Collected:	BTO C BTO C Bq./eR (Bq./eR (Bq./eR) Bqi/eR (Bq./eR)	PVC, de dien Cond: 30 um	ナe d) nos Alkalinity:	
Date and Time Collected:	BTOC BTOC Bailer (6 Temp: 10°C blicable): _NA	PVC, de dica Cond: 30	hed)	
Date and Time Collected:	BTOC BTOC BaileR (E Temp: 10°C Dicable): NA	PVC, de dica	hed)	
Date and Time Collected:	BTO C BTO C Bq,/eR (C Dilicable):	PVC, de dica	hed)	
Date and Time Collected:	BTO C BTO C BTO C Bq./eR (6 C C C C C C C C C	PVC, de dien Cond: 30 um	hed)	
Date and Time Collected:	BTO C BTO C Bq./eR (C Bq./eR (C Dilicable): Dilicable): Temp:	PVC, de dien Cond: 30	hed) hes Alkalinity: Turbidity:	
Date and Time Collected:	BTO C BTO C Bq./eR (E Temp: /0°C Discable): _//A Discable): Temp:	PVC, de dien Cond: 30 um	ナe d) Te Alkalinity: Turbidity:	



Well Purging/Sampling Form (Field Sheet)

Page 1 of 1

Project Na	ame and N	lumber:	Deseret Ch	emical De	epot 01-0827	7-03-6523					
Well Num	ber and Lo	ocation:	S-115-94 S	SWMU19)						
Sampling	Crew:	_	John Carter, Knut Torgerson, Patrick Sorderberg								
Pump De	oth/Total C	Depth (btoo	c): 130 ¹ /135 ¹								
Purging M	lethod:	Submersible	e Pump EPA	Low Flo	ow Method						
Quantity of	of Water R	emoved:	11 gal Screen Length:								
Sample N	umber:	S-115-94 (S	SAIC01)								
Date/Time	•	11/17/98 08	300 - 0915								
Trip Blank	Number:	S-3 (SAICTB02))	Samp	led by:					
			F	FIELD I	MEASUR	EMENTS					
Date/Time	Rate (GPM)	Volume (gals.)	Water Level (BTOC)	Temp (°C)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)		
11/17/98 08	.25	3	107.75'	11.4	7.61	.689	0	8.17	228.9		
11/17/98 08	.25	5	107.75'	12.4	7.86	.701	0	7.94	211.3		
11/17/98 08	.25	7	107.75'	12.4	7.96	.700	0	7.92	198.4		
11/17/98 08	.25	9	107.75'	12.3	8.00	.700	0	8.00	188.5		
11/17/98 08	.25	11	107.75'	12.3	8.03	.699	0	7.84	182.4		
									· · · · · · · · · · · · · · · · · · ·		
GPM = Gallon	ıs per Minu	te LPM =	= Liters per	 Minute	BTOC = Be	low Top of Ca	sing				
Comments:	•		-			, .					
Form Comple	tad by:	Ty Grivat									

One well volume = $(H \times W) + \{0.33[(SH \times B) - (SH \times W)]\}$ Where: H = water column, W = well multiplier (2^n = 0.16, 4^n = 0.65), SH = screen height, B = borehole diameter multiplier (for 6^n = 1.47, 8^n = 2.61, 10^n = 4.08, 12^n = 5.89)

SWMU 19 MONITORING WELL S-116-94

			-S Phase II RFI					3						
			-0827-03-6523											
		ke Miles												
			vironmental Inc.											
		Cross		Drilling Method: Dual Wall Perce			Surface Pad Elevation (ft): 5235.01							
Drill Rig: A.P. 1000				Sampling Method: Spirt Spoon,	Sampling Method: Split Spoon/Grab			Casing E	g Elevation (ft): 5238.08 Well Const. As-Built					
(feet)	Class	Soil Class Wate		rial Description	Blows/6 in.	Sample #	Sample Type			eli Cons	t. AS-B	uiit		
5	GC	000000000000000000000000000000000000000	reddish yellow; Gravel i limestones and sandsto loose, dry, no apparen moderate consistency. 9.5. Depositional envir-		39-50/ 50/	1 2	SS	0	Steel Casing————————————————————————————————————	le 80 PVC Riser	nt/Bentonite Grout			
	сL		stiff; dense; damp; no t 29.0 to 30.5;	YR7/2 light gray; high plasticity; bedding; Sample Interval was			SS			Shedule 80 PVC Riser —	Cement/Bentonite Grout			
)- 			Sample Interval was 39	9.U TO 4U.5	8-19-20	4	SS	0	-	₹ 📓				
	ML		plasticity; soft; loose; s bedding; some oxidation	R5/3 brown; low to medium slightly moist; no apparent n in micro- fractures. Bonniville erval was 49.0 to 50.5; Sample 0.5	15-27-44	5	SS	0		4 ————————————————————————————————————	WINTERPORT OF THE COMMUNICATION OF THE COMMUNICATIO			
			brown; medium plasticit apparent bedding; Som	Gand. 10YR5/4 light yellowish y; firm; dense; molst; no le concreations of very hard sub-rounded to sub-angular.										
7			Lake sediments. Interv	_	9-24-28	6	SS	0	4					
	CL		Sample Interval was 59		_									
- - -			Sample Interval was 69	69 to 70.5		7	SS	0	-					
1														

		75.0	O C Dhara II DEI	SOIL BORING/WE	LL LO		·		_	uo - :					
			0-S Phase II RFI	Site Location: SWMU 19	Northing (ft): 2219901.79				Monitoring Well No.:S-116-94 Start/Finish Date:09-19-94/09-21-94						
			1-0827-03-6523	-								1-94			
		ke Miles		Easting (ft): 429015.01		Well Completion Depth (ft): 218.0									
			nvironmental Inc.	Groundwater Elev. (ft): 5100.42		•									
Driller:_					Drilling Method: Dual Wall Percusion										
Drill Rig	; <u>A.F.</u>	1000		Sampling Method: Split Spoon/Gr	3D		Top of Casing Elevation (ft): 5238.08 Well Const. As-Built								
Į.								'	veli coi	15t. A5-	-Bunt				
Depth (feet)	Soil Class USCS	Lithologic Symbol	Mater	rial Description	Blows/6 in.	Sample #	Sample Type	(mdd) UNH							
	CL									\top		Γ			
80-		00	1	% Silt. 10YR5/3 brown; Gravel	50/	8	SS	0	1				-80		
	GC	0000	is black, calcareous lime subangular to angular.	Sediments are loose, slightly											
1	60	8	1	n-plastic with no apparent			l								
85-		00	pedding planes. Deposi outwash. Sample Interv	tional environment = Alluvial al was 79 to 79.5									85		
]				and. 10YR5/3 brown. Moist;									-		
90-			medium plasticity; mediu	m to firm consistancy; dense	10-12-20	9	G	0		hedule 80 PVC Riser ————————————————————————————————————			-00		
	ĺ		hard; no apparent bedd Interval was 89 to 90.5	•									[
95-	ļ		Interval was 69 to 90.5										95		
"	CL		1										1		
		====							_				- 1		
100-		====	Sample Interval was 99.	0 to 100.5	NA	10	SS	0					100		
1 1															
105-												1	10		
1 1					<u> </u>				İ	ser		j	ļ		
\			60% Silt, 20% Clay, 20% Medium plasticity; medium	Sand. 2.5Y8/2 pale yellow.					1	C R		ق ف			
110-	ML		interbedded silt and cla		5-19-27	11	SS	0	-	3		e Hi	-110		
1]				e Sediments. Sample Interval						le 8(gent Sent	F		
115			was Interval was 109.0 t environments = Lake se							hedule 80 PVC Riser		ent/Bentonite Grout	115		
]			50% Silt. 35% Sand: 15%	Clay. 10YR4/3 brown; no to						<u>က်</u>		Ceme	[]		
120-			low plasticity; soft; dens	se; moist; no apparent bedding	18-18-35	12	SS	0	İ	4			120		
""			or rock fragments. Sam	ple Interval was 119.0 to 120.5	10 10 30		- 33		}				["]		
] ;				in 10YR5/3; medium plasticity;											
125-				oparent bedding. Sample 0.5. Depositional environments	,				ĺ				⊣ 12€		
1 1			= Lake sediments												
130-					7-15-19	13	SS	0	1				130		
	_		·						1				-		
125	SP														
135-													H38		
]													[
140-			Sample Interval was 139	to 139.5	NA	14	G	0]				140		
145-					1								145		
			•					!							
					16-22-25	15	SS	0	1						
150-			Sample Interval was 149	t0 150.5	10 11 10			. u]	12		_	450		
													1		

SAIC Pr Geologis	roject (st: <u>Mi</u> Co.: <u>L</u> Kevin	No.: 01- ke Miles ayne En Cross	S Phase II RFI -0827-03-6523 vironmental Inc.	Northing (ft): 2219901.79 Easting (ft): 429015.01	on 10/21/94 on	_ M _ S _ M _ C	Start/Fi Iell Com Orilled D Gurface	nish Dati pletion [epth (ft Pad Ele	Depth (ft	9-94/0): 218. I t): 52:	35.01	
Depth (feet)	Soll Class USCS		Mate	rial Description	Blows/8 in.	Sample #	Sample Type	HNU (ppm)	We	a Const	: As-Built	
55-			Sample Interval was 15	9 to 159.5	16-22-25 NA	15	SS	0		4" Shedule 80 PVC Riser	Cement/Bentonite Grout	
70- 75-		•	This area had an incre interval was 169.0 to 17	ase in very fine Sand; Sample 0.5.	11-18-50/	17	SS	0		PVC Riser	Cement/Bentonite Grout	
30-	SP		plasticity; stiff; dense; apparent rock fragmer small siltstone fragmen stone but have not ye	Sand. 10YR5/3 brown; medium moist; no apparent bedding; no ts but there does exist a few is that are part of the original decomposed. Sample Interval itional environments = Lake	NA	18	G	0		4" Shedule 80 PVC Rise		
90-			Sample Interval was 18	9.0 to 190.5	B-12-22	19	SS	0) PVC Screen		+	T T
00-				is above with an increase in e Interval was 199.0 to 199.5	NA	20	G	0	4" .010 Slot Schedule 80 PVC Screen	**************************************	Sand Filter Pack Bentonite Seal	
10-	GC	00,000	to fine, sub-rounded to sands with loose, satur bedding plains appared	ry dark gray 2.5Y3/1. very fine o angular; moderately sorted ated, non plastic silts. No nt. Sample Interval at 209 to vironment = Alluvial outwash.	50/8	21	SS	0	74".010		Sand Fil	
20-		000	cemented, no plasticity Alluvilal ouwash Bottom of Boring at 21	ery dark gray 2.5Y3/1, 0.25-1" in gular, well sorted, hard, non . Depositional environment = 9.0 feet d, NA=Not Applicable Borehole	A							

DENVER, CO. →

"035069689;# 4

WLI

WELL DRILLER'S REPORT

State of Utah Division of Water Rights

				For	. ad	dit	101	nai s	pace, use "Ad	Iditional Wo	eli Data Fo	rm" and at	ttach	_
Well Ide	ntifica @	01	ITO:	RI	WE	Ľ.	:	94	-15-002-M-	-04				
Owner	P	٥.	e - Bash	ÖX	1:	30	3		my Depot					
									Contact Pers	on/Engineer:	John Pe	ndleton		
Well Loc	N	OR	uny che TH TIO	221	DO	f	ee TC	t i	EAST 2900 SHIP 68, E	feet fr RANGE 4W	om the a	SW Corn	er of	
Location I	Descriptio	n: (addres	ıs, pı	roxir	nity	to	build	lings, landmarks, g	round elevation	n, local well #)		
Drillers	Activity		Start	Dat	:-:		9.	-19-	-94		Completion	Date:	10-1-94	
	Repair					ban	dor	, _	Replace Publi	ic Nature of L	Jse:		of the state of th	
DEPTH FROM	(feet) TO		BORE!			2)	i		DRILLING	METHOD		D	RILLING FLUID	
0	220		9					1	Percussion E	lammer		Air		
		ļ					_		<u> </u>		,,,,,			
Well Log DEPTH FROM		W A T E R	PERMINER ABLE	CLAY	CON S S I A L N T D	SO R A V E L	CORBLES	ATEI B O T H L B R	ROCK TYPE	COLOR	(incl		ONS AND REMARKS on water quality if known.)	
0	220			XX	- 1	X	1	-					18 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
· · · · · · · · · · · · · · · · · · ·		- - -												
					-							·		
Static Wa	nter Leve	:												_
Date	9–2					,			Water Leve		213 _{cet}	Flowing?	∐ Yes ★ I No	
	of Wate		l						ras Referenced	If Flo	wing, Cappe	d Pressure	PSI	
			ŀ						ground surface_	f	eet Temper	ature	. 🗆 °C 🗆 •F	
		_				-								-

Construct	ion Infor	nation	 	1	······································		,,,			<u> </u>
DEPTH			CASIN	(G		DEPTH	(feet)	SCREE	N 🖔 PERI	ORATIONS (*)
FROM	ŤΩ		EMPT DAIKO DAA HUANDALAINEITAM	WALL THICK (in)	HOMINAL DIAM. (III)	PROM	то	SLOT SIZH OR PERH SIZE (in)	SCREEN DIAM. OR PERP LENGTH (in)	SCREEN TYPE OR NOMBER PER (per mund/interv
0 .	208	Sch	. 80 PVC	1	4	208	218	.010		
			**							
						<u> </u>				
: ==:										
Well He	ad Config	uration	: Abovegrade			- · · ·	Ac	cess Port Prov	vided? 🖺 Yes	13 No
_	oint Type		Flush thread		_ Perforator	Used:				
DELLH	(feet)							NMENT MAT		
FROM	то		ANNULAR MATERIAL and/or PACI	, ABANDONI KER DESCRIE		LIAL.		of Material Use applicable)		JT DENSITY a mix, gal/sack etc
<u> 507</u>	218	1	0-20 Sand					8		
1 98	2 L03	B	entomite seal,	pelleta		.		1		
0	1 98	P	ortland_cement	•	• •			57		
		••								
								· · · · · ·	 -	
Wall Da		 / D	p or Bail Tests							
· F. Size	•	E WAR				- 1		Unita		TIME
Dut	e -		Method			Y	ield	Check One OPM CFS	DRAWDOWN (ft)	PUMPED (hrs & man)
				<u> </u>						
	1									
Pump (Po	excription	_			Ногвер	ower:		Pump Intake	Depth:	feet
	•		pumping rate:		Well disin			_	Yes 🗆 No	
Commen	tx Descr	ription o	construction activity, abandonment / proce	additional medures. Use ac	aterials used, dditional well	problems e	ncountere	d, extraordinar	у	
18 16 dec								·	·· · · · · · · · · · · · · · · · · · ·	
5 MM						 -				
	• • •									
Well Dr	iller State	ment	This well was drilled this report is complete	or abandoned	under my su to the hest of	pervision.	according	to applicable n	ules and regulation	ns. and
Nume.	Lavn		ironmental Ser	rvices		•	License N		626	
Signat	lure		on. Firm, or Corporation	5	ie}		Date_	10-1	8-94	
			(Licensed Well Dr	riller)						



(Field Sheet)

Project Name and Number: TEAD-5 01-0827-03-06523-021

Well Number and Location: S-116-99 SWMU 19

Water Levels/Time:

Initial: 133.78 9:50 Jumping: 156.14 Final: 130.38

Total Well Depth:

Initial: 216 Final: __

Date and Time: Begin: 1/C/23/94 8:45 Completed: 10/23/94 12:42

Development: Method(s):

ethod(s): 4" SUBMERSIBLE PLUP (PURGE)

Total Quantity of Water Removed: 275 GALS (PULGED) gals

Date/Time	Discharge Rate*		Field Meas	surements		Remarks
and Pump Setting	and Measurement Method	Temp (°C)	Specific Conductivity (umhos/cm)	pH (Standard Units)	Turbidity	(Including Sand Production)
161 TOC						H20 15
10/23/94						VERY
9:28	1.80 GPM	13.9	155×10	11.86	0.75	CLEAR.
9:48	1.5/GPM	14.7	99×10	11.11	0.65	
10:08	1.50 GPM	14.4	60 x 10	9.71	0,30	
10:28	1,50 GPM	14.1	59×10	9.14	0,28	
10:48	1.50 GPM	14.9	59 X10	8.99	0.20	
11:08	1.50 GRM	16.8	60 X10	8.79	0.11	
11.28	1,2 GPM	16.2	60 X/0	8,62	0.03	
11:48	1.2 GPM	17.0	61×10	8.45	0.02	
12:30	1.2 GPM	18.0	62×10	8.42	0.02	

*gallons per minute or bailer capacity

HERAIT HO BOLEVEL METER @ 160,



(Field Sheet)

ell Number	and Location:	5-116-9	9 9 5	<u> </u>	19	
	Crew: PENDUE					PLOTTS
	Time: Initial:					
otal Well De			Final:			
ate and Tim						· · · · · · · · · · · · · · · · · · ·
evelopment:	,	3" SUBY	IE1251BLE	Dunp		
•						
	Total Quantity of	of Water Rem	oved: 12064	REMOVE	D WITH E	SALLER C
	•					
Date/Time	Discharge Rate*		Remarks			
and Pump Setting	and Measurement Method	Temp (°C)	Specific Conductivity (umhos/cm)	pH (Standard Units)	Turbidity	(Including Sand Production)
9/28/94	~21/25cl/1011					
			1			
				;		
	·					
	·					
	·					



Sampling Form (Field Sheet)

Sampling Point Number: S-116	ETON + MAR - 94				
Sampling Location: 5WMU					-
. ,, -	SW Soil	☐ SED			
Date and Time Sample Collected: _	10/26/94			<u></u>	
Weather Conditions: SUNNY, G	10°F		·		
Purging Information (if applicable)	:				
Method: 4" SUBJEES	IBLE PUMP				
Quantity of Water Purged:	275 046	··			
Disposition of Purge Water: _	CLEAR				
				7 -1-4	
Date and Time of Purging: S			End:		12
Comments: FIELD MEASU	HEMENTS TA	KEN DUKING			0.77/1.5.57
@ 1230 1.26PM p.	M. D.T.L. TEM	LAM	000: 62) hos/Cm	CIO TURBII	DITY: 0.02 N
Groundwater:	, ,				
Date and Time Collected:	10/23/94 F	140		<u> </u>	
Sampling Depth:					
Sampling Depth:	JATER SURFAC	E ELEVATI	ON = 13	3.78 TOC	
Sampling Depth: Water Level: [NITIAL 6 Sampling Method/Equipment	VATER SURFACE	E ELEVATI	ON = 13 EEL BA	3.78 TOC	
Sampling Depth:	STO	E ELEVATI AINCESS ST Cond:	ON = 13 EEL BA	3.78 TOC	
Sampling Depth: Water Level: [NITIAC 6] Sampling Method/Equipment Field Measurements: pH Date and Time Filtered (if ap	Temp:	E ELEVATI AINCESS ST Cond:	ON = 13 EEL BA	3.78 Toc ILOR Alkalinity:	
Sampling Depth:	Temp:	E ELEVATI AINCESS ST Cond:	ON = 13 EEL BA	3.78 Toc ILOR Alkalinity:	
Sampling Depth: Water Level: [NITIAC 6] Sampling Method/Equipment Field Measurements: pH Date and Time Filtered (if ap	Temp:	E ELEVATI AINCESS ST Cond:	ON = 13 EEL BA	3.78 Toc ILOR Alkalinity:	
Sampling Depth: Water Level: [NITIAC 6] Sampling Method/Equipment Field Measurements: pH Date and Time Filtered (if ap	Temp:	E ELEVATI AINCESS ST Cond:	ON = 13 EEL BA	3.78 Toc ILOR Alkalinity:	
Sampling Depth: Water Level: [NITIAC 6] Sampling Method/Equipment Field Measurements: pH Date and Time Filtered (if ap	Temp:	E ELEVATI AINCESS ST Cond:	ON = 13 EEL BA	3.78 Toc ILOR Alkalinity:	
Sampling Depth:	Temp: Plicable): NA	E ELEVATION CONDITION COND	ON = 13 EEL BAI VRING	3.78 TOC (LOR, Alkalinity: PURGING	
Sampling Depth: Water Level: // // ITIAC // Sampling Method/Equipment Field Measurements: pH Date and Time Filtered (if ap Comments: FIELD ME Surface Water: Date and Time Collected: Collection Method:	Temp:	TAKEN O	ON = 13 EEL BAI VRING	3.78 TOC ILOR Alkalinity: PURGING	
Sampling Depth: Water Level: // // ITIAC // Sampling Method/Equipment Field Measurements: pH Date and Time Filtered (if ap Comments: FIELD ME Surface Water: Date and Time Collected: Collection Method: Date and Time Filtered (if ap	Temp:	E ELEVATION CONDITION OF TAKEN OF	ON = 13 EEL BAI VRING	3.78 TOC (LOR. Alkalinity: PURGING	
Sampling Depth: Water Level: [NITIAC Control Contro	Temp:plicable):plicable):	E ELEVATION CONDITION COND	ON = 13 EEL BAI VRING	3.78 Toc (LOR. Alkalinity: PURGING.	
Sampling Depth: Water Level: // // ITIAC // Sampling Method/Equipment Field Measurements: pH Date and Time Filtered (if ap Comments: FIELD ME Surface Water: Date and Time Collected: Collection Method: Date and Time Filtered (if ap	Temp:plicable):plicable):	E ELEVATION CONDITION COND	ON = 13 EEL BAI VRING	3.78 Toc (LOR. Alkalinity: PURGING.	
Sampling Depth: Water Level: [NITIAL B Sampling Method/Equipment Field Measurements: pH Date and Time Filtered (if ap Comments: FIELD MEA Surface Water: Date and Time Collected: Collection Method: Date and Time Filtered (if ap Field Measurements: pH Comments:	Temp:plicable):plicable):	E ELEVATION CONDITION COND	ON = 13 EEL BAI VRING	3.78 Toc (LOR. Alkalinity: PURGING.	
Sampling Depth: Water Level: // ITIAC / Sampling Method/Equipment Field Measurements: pH Date and Time Filtered (if ap Comments: // FIELD / MEA Surface Water: Date and Time Collected: Collection Method: Date and Time Filtered (if ap Field Measurements: pH Comments: Soils/Sediment Sampling:	Temp:	TAKEN O	EEL BAI	3.78 Toc (LOR. Alkalinity: PURGING.	
Sampling Depth: Water Level: [NITIAC V Sampling Method/Equipment Field Measurements: pH Date and Time Filtered (if ap Comments: FIELD MEASUREMENT Surface Water: Date and Time Collected: Collection Method: Date and Time Filtered (if ap Field Measurements: pH Comments: Soils/Sediment Sampling: Date and Time Collected: Date and	Temp: plicable): plicable): Temp:	E ELEVATION CONDITION COND	ON = 13 EEL BAI VRING	3.78 Toc (LOR. Alkalinity: PURGING.	
Sampling Depth: Water Level: [NITIAC Color	Temp:	E ELEVATION COND. COND. COND. COND.	ON = 13 EEL BAI	3.78 Toc (LOR). Alkalinity: PURGING. Turbidity:	
Sampling Depth: Water Level: [NITIAC V Sampling Method/Equipment Field Measurements: pH Date and Time Filtered (if ap Comments: FIELD MEASUREMENT Surface Water: Date and Time Collected: Collection Method: Date and Time Filtered (if ap Field Measurements: pH Comments: Soils/Sediment Sampling: Date and Time Collected: Date and	Temp:	E ELEVATION CONDITION COND	EEL BAI	3.78 Toc (LOR, Alkalinity: PURGING. Turbidity:	



Sampling Form (Field Sheet)

Project Name and Number:	CE-SOUTH RFI 01-0827-03-6523-0
	J. SKIBWEKT, JAPENOLETON
Sampling Point Number: WEU	
	North of BLOB 536
Sample Type: 🔀 GW 🔲 SW	Soil SED Other:
Date and Time Sample Collected:1/26	6/95 17:45
Weather Conditions: Overcast	, COLD, TEMP MID 30's, Ensterly
Purging Information (if applicable):	
Method: 3 7/8" Subm	persible Grundfes pump
Quantity of Water Purged: 275	gallen5
Disposition of Purge Water:	gr
	Lister 1999 - 1 Notland 1999
	126 195 12:38 End: 1/26/95 17:20
Comments:	
Cuaraduratan	
Water Level:	edicated Bailer (PVC). Temp: 10 °C Cond: 30 "Mbos Alkalinity: e): NA
Date and Time Collected: 17:00 Sampling Depth: 15:00 Water Level: 17:00 Sampling Method/Equipment: 17:00 Field Measurements: pH 17:00 Date and Time Filtered (if applicable)	edicated Bailer (PVC) Temp: 10 °C Cond: 30 UMBOS Alkalinity:
Date and Time Collected: 7.0 Sampling Depth: E Water Level: 7.6 Sampling Method/Equipment: 2 Field Measurements: pH 7.6 Date and Time Filtered (if applicable Comments: 5.6 Surface Water: 5.6 Surface Water: 7.6 Sampling Depth: 7.6 Surface Water: 7.6 Surface Wate	edicated Bailer (PVC). Temp: 10°C Cond: 30° umbos Alkalinity: e): NA
Date and Time Collected: 7.0 Sampling Depth: E Water Level: /// 6 Sampling Method/Equipment: D Field Measurements: pH 7.40 Date and Time Filtered (if applicable Comments:	edicated Bailer (PVC) Temp: 10°C Cond: 30°C Alkalinity: e): NA
Date and Time Collected: 7.0 Sampling Depth: E Water Level:	edicated Bailer (PVC) Temp: 10 °C Cond: 30 °C Alkalinity: e): NA
Date and Time Collected: 7.5 Sampling Depth: Few Mater Level: 7.6 Sampling Method/Equipment: Date and Time Filtered (if applicable Comments: PH Date and Time Collected: Collection Method: Date and Time Filtered (if applicable Field Measurements: pH Date and Time Filtered (if applicable Field Measurements: pH Date Sampling Date and Time Filtered (if applicable Field Measurements: pH Date Sampling Date Samp	edicated Bailer (PVC) Temp: 10 °C Cond: 30 °C Alkalinity: e): NA e):
Date and Time Collected: 7.0 Sampling Depth: E Water Level:	edica fed Bailer (PVC) Temp: 10 °C Cond: 30 °C Alkalinity: e):
Date and Time Collected: 7.0 Sampling Depth: E Water Level: 7/1, 6 Sampling Method/Equipment: D Field Measurements: pH 7, 6 Date and Time Filtered (if applicable Comments: P Date and Time Collected: Collection Method: Date and Time Filtered (if applicable Field Measurements: pH Comments: P Comments: Soils/Sediment Sampling: Date and Time Collected: C	edicated Bailer (PVC) Temp: 10 °C Cond: 30 °C Alkalinity: e): A e):
Date and Time Collected: 7.0 Sampling Depth:	edicated Bailer (PVC) Temp: 10 °C Cond: 30 °C Alkalinity: e): NA e): Temp: Cond: Turbidity:
Date and Time Collected: 7.4 Sampling Depth:	edicated Bailer (PVC) Temp: 10 °C Cond: 30 °C Alkalinity: e): A e):



Well Purging/Sampling Form

(Field Sheet)

Page 1 of 1

Project Na	ame and N	lumber:	Deseret Ch	emical De	epot 01-0827	7-03-6523			
Well Num	ber and Lo	ocation:	S-116-94 S	SWMU19)				
Sampling	Crew:	_	Knut Torge	rson, Pat	rick Sorderb	erg			
Pump De	pth/Total D	epth (btoo	200 1/2	15'					
Purging M	/lethod: 5	Submersible	e Pump EPA	Low Flo	w Method				
Quantity of	of Water R	emoved:	12 gal			Screen Length	:		
Sample N	lumber:	S-116-94 (S	SAIC01)						
Date/Time	e	1/17/98 094	10 - 1105						
Trip Blank	Number:	S-3 (SAICTB02)		Samp	led by:			
			F	IELD I	MEASUR	EMENTS			·
Date/Time	Rate (GPM)	Volume (gals.)	Water Level (BTOC)	Temp (°C)	pH (Standard Units)	Specific Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)
11/17/98 1003	.25	2	123.13'	11.6	11.77	.677	0	6.00	152.2
11/17/98 1011	.25	4	123.13'	13.2	11.67	.667	0	5.83	127.0
11/17/98 1019	.25	6	123.13'	13.8	10.65	.576	0	6.19	122.9
11/17/98 1027	.25	8	123.13'	14.1	10.48	.574	0	6.26	125.6
11/17/98 1035	.25	10	123.13'	13.8	10.53	.582	0	6.22	122.5
11/17/98 1043	.25	12	123.13'	13.9	10.44	.585	0	6.31	127.1
GPM = Gallon Comments:	is per Minu	te LPM =	= Liters per	Minute	BTOC = Be	elow Top of Ca	sing		
Form Comple		Ty Grivat							

One well volume = $(H \times W) + \{0.33[(SH \times B) - (SH \times W)]\}$ Where: H = water column, W = well multiplier (2" = 0.16, 4" = 0.65), SH = screen height, B = borehole diameter multiplier (for 6" = 1.47, 8" = 2.61, 10" = 4.08, 12" = 5.89) APPENDIX C FIELD LOGS BACKGROUND

SWMU 20 BUILDING 520 SEPTIC TANK

Project	d Name	. TEAC)-S Phase II RFI	SOIL BORING Site Location: SWMU 20	Soil Boring N	. Bi	-20-00	1	
			1-0827-03-6523	Drilling Method Dual Wall Percussion	Start/Finish				2-94
		ike Miles			Sampling Met				
1			nvironmental Inc.	DrillerKevin Cross				, 5. 45	
Drilling	100.:		Total Control Control	Driller_10000	Drilled Depth	(11);_		[T
Depth (feet)	Soil Class USCS	Lithologic Symbol		Material Description .	Blows/8 in.	Lab ID	Sample Type And #	(mdd) (NH	
5-	GC	00000000000000000000000000000000000000	is 0.5–2" in size; subi density; low plasticity Alluvial outwash	d, 20% Silt, 10% Clay. 7.5YR6/1 reddish yellow. Gravel ounded to angular, poorly sorted; loose; dry; moderate; no apparent bedding. Depositional environment =	50/		SS	0	- F
15-				7.5YR6.4 reddish brown; dense; moderate hardness; licity; no apparent bedding. Depositional environment	5-6-10 6-9-10	2	SS	0	15
1 1	ML						ļ		1
					22-40-27	4	SS	0]
20-									20
					7-21-17	5	SS	0	
			Bottom of Boring at						
			NUIE:NK=Not Record	ded, NA=Not Applicable Borehole Diameter=9.5"				:	-
25									-25

Project	t Name	TEAD)-S Phase II RFI	SOIL BORING Site Location: SWMU 20	Soil Boring N	lo.: Bl	H-20-00	12	
SAIC P	roject	No.: 0	1-0827-03-8523		Start/Finish				3-94
Geolog	ist: M	ike Miles	3	Drill Rig. A.P. 1000	Sampling Me				
			nvironmental Inc.	Driller Kevin Cross	Drilled Depth				
Criming				J. III.	Brimed Bepti	<u> </u>		T	T
Depth (feet)	Soil Class USCS	Lithologic Symbol		Material Description	Blows/6 in.	Lab ID	Sample Type And #	HNU (ppm)	
5-	GC	00000000000000000000000000000000000000	Fine grained silts and	I, 20% Silt, 10% Clay. 7.5YR6/1 reddish yellow. Grave bunded to angular, poorly sorted with no apparent to medium grained; subrounded and poorly sorted. clays are loose; dry; low plasticity	9-29 50/5 50/	1 2 3	G SS SS	0 0	φ
15-	ML			5YR6.4 reddish brown; dense; moderate hardness; city; no apparent bedding. Depositional environment	5-8-7 6-11-22	4	G SS	0	1 5
			Gravel as previously o	lescribed. Gravel size has increased (.5-3")		-	-		-
	ec		orarer do premotos, c		27-50/5	6	ss	0]
20-	CI	====	Sandy Silty Clay, Sam	e as previously described at 14.0-17.5		ļ	<u> </u>	<u> </u>	20
	GC	<u>प्रु</u> ु	Gravel.		8-50/4	7	G	0	↓ ∤
			Bottom of Boring at 2	0.5 feet			ĺ		
			NOTE:NR=Not Record	ed, NA=Not Applicable Borehole Diameter=9.5"					
25									-25

SWMU 33 BUILDING 536

SWMU 33A INSIDE BUILDING 536

SWMU 33A SOIL BORING LOGS Boring Location Project: TOOELE ARMY DEPOT-SOUTH ARMS SWMU No: 33- BUILDING 536 58-33-004 9/22/94 Start date and time: 1030 Completion data and time: 1/30 Drilling Contractor: Drilling Method: SLIDE HAMMER 3106 S36 Logged by: PENDLETON 1.5' BLS Diameter (inches): 24 X6 11 CORE BARREL Total depth (feet): Sampler type and size (diameter and length): SLIDE HAMMER WITH 2" X 6" CORE BARREL Samples collected from boring: $\leq 8-33-004 \approx 48 \approx 48$ Head-Max. PID Lithologic Description Depth Space Reading Blows Sample Secondary Compounds Sample (USCS name; color; consistency plasticity; density; Reading (6 inches) Type (feet) (ppm) Recovery and Percentages moisture content; angularity, additional facts). NIA 50% SILT LIGHT GRAYISH BROWN 10 412 5/2 CLAYEY 50 100% SYLT, LOOSE, DRY (POWDERY) LOW 30% CLAY PLASTICITY LOW DENSITY GRAVER SUBANGULÁR TO SUBROWNDED, UP 20% GRAET 70 Scm Id SIRE 0.54-0 NA 80% 60 % SRT 0 SO 50% CUY SEE DESCRIPTION ABOVE w 6 GRAVEL 1.0-2-1-0 100% 70% SILT **3**0 25/0 cur SEE DESCRIPTION ABOUT. 5% GRAFT 1.5-26-0

Boring Lo	ocation	_	Project:	DECE ,	ARMY DE	POT-SOUTH ARM	SWMU No: 33- BUILDING 536
	SE-33-9	as N	Start date and		1/22/94	1430	Completion data and time; 9/22/94 1510
3	106 536	\	Drilling Cont	ractor: <	SAIC		Drilling Method: SCIDE HAMMER
B	106 3 - 0	7	Logged by:	7.5	ENDLET	ro4	
			Total depth (f	eet): /	.5' BE	<u> </u>	Diameter (inches): 24 × 64 CORE BARREL
			Sampler type	and size (d	iameter and l	ength): SLIDE HA	MMER WITH 2" X 64 CORE BARREL
			Samples colle	cted from t	ooring: <	5B-33-005A	2200 8 200
Depth (feet)	Head- space Reading	Max, PID Reading (ppm)	Blows (6 inches)	Sample Type	Sample Recovery	Secondary Compounds and Percentages	Lithologic Description (USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)
0	- Ö	0	NA	So	100%	60% SILT	VLIGHT GRATISH BROWN 19412 5/2 CLAYEY SILT, LOSE, DRY (POWDERY) LOW PLASTICAY LOW DEVELTY GRAVEL SUB ANGULAR
						30% CUY	LOW DEVELTY GRAVEL SUB ANGULAR
		,				10% GRAVER	TO SUBROUNDED, UP TO 5 CM IN
							S/ Z E
0.54	- 0	0	NA	so	100%	70% SIT	ML SEE ABOVE
			,			70% CLAY	
			 			10% 62417	
1.0-2	-0	0	NA	SO	100%	SAME 13	ML SEE ABOUE
			τ			4BOVE	
1.5-30							·
4—							
		-	-				
	L—————————————————————————————————————		<u> </u>		L		
•							

Project: TOOELE ARMY DEPOT-SOUTH AREA SWMU No: 33- BUILDING 536 Boring Location 50-33-006 9/22/94 1310 Start date and time: Completion data and time; 9/22/94 022\ Drilling Method: SUDE Drilling Contractor: HAMMER BLD6 536 Logged by: PENDLETON 24 × 64 CORE BARREL 1.5' BLS Total depth (feet): Diameter (inches): Sampler type and size (diameter and length): SLIDE HOMMER WITH 2" X 6" CORE BARREC Samples collected from boring: 5B-33-006A (DUPLICATE SAMPLE) 006B 006C Lithologic Description Head-Max. PID **Blows** Sample Sample Secondary Compounds (USCS name; color; consistency plasticity; density; Depth Space Reading Gome moisture content; angularity, additional facts). and Percentages (6 inches) Recovery (feet) Reading (ppm) Type LIGHT BROWN 104R 5/Z. CLAYEY SICT. LOOSE, DRY (POWDERY) COW PLATICITY, LOW DENSITY, GRAVEL SUBANGULA. ML NIA 60% SKT 100% 0 50 35% CHAY 5% 6MKL DUPLICATE SAMPLE COLLECTED AT SURFACE LIGHT BROWN 10417 STS CLAYEY SILT LOOSE DRY (PONDER!) LOW PLASTICITY LOW DRUSTY & 100% 0.54-70% SILT ML SO 30% CUTY 100% 46HT BROWN 104125/3 1.0-2- ∞ 20% SLT ML 0 \Box LOOSE, DRY (POWDETRY) COW PLASTICTY 50% CLAY 1.5-3-4-

Boring Lo	ocation	2	Project:	DOELF	ARMY D	FPOT-SOUTH AZEA	SWMU NO: 33 BUILDING 536 (MSIDE)					
		RF)	Start date and				Completion data and time;					
			Drilling Contr	actor:	SAIC		Drilling Method: SLIDE HAMMER W. HAND TEOLS					
		$\overline{}$	Logged by:		ndleto	~_						
\	₅ 8-33-∞7		Total depth (fo	eet):	S'BLS	•	Diameter (inches):					
	BLD6 53	<u></u>	Sampler type	and size (di	iameter and l	ength): SLIDE ha	numer with 6" x 2" CORE BARREL					
	Depe =		Samples colle	cted from b	oring: S	B-33-007A	007B, 007C					
Depth (feet)	Head- space Reading	Max. PID Reading (ppm)					Lithologic Description (USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)					
0	- 0	0	NA	50	100%	50% SILT	ML LIGHT GRAYISH BROWN TOTRS/2 CLAYEL					
						30% CUY	SILT WITH SOME BRAVER, SILT IS LOOSE, DRY, LOW PLACELLTY, LOW DELISITY, GRAVER					
						20% GENEL	SUBAMBULAR TO SUBROUNDED, 03-5-CATINI SIZE					
0.5.1-	- 0	0	NA.	So	90%	60% SICT						
			1		<u> </u>	30% CLAY	SAME AS ABOUT					
			,			10% GRAVEZ						
1.0-2	- 0	0	AlA	so	100 %	60% SILT						
			,			30% CLAY	SAME AS ABOUE					
				<u> </u>		10% GRAVER						
1.5 2												
												
4												
					<u></u>							

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Project: TOOELE ARMY DEPOT-SOUTH ARMS SWMU NO: 33- BUILDING 536 Boring Location Start date and time: 9/ Completion data and time: 9/22/94 1240 1130 Drilling Contractor: Drilling Method: SCIDE HAMMER BLD6 536 Logged by: PENDLETON 24 x64 core Barrel Diameter (inches): 1.5' BLS Total depth (feet): 5B-33-00B SLIDE HAMMER WITH 2" X 6" CORE BARREL Sampler type and size (diameter and length): Samples collected from boring: SR-008A 008 B 08C Head-Max. PID Lithologic Description Depth Reading Blows Sample Sample Secondary Compounds (USCS name; color; consistency plasticity; density; space (6 inches) Type Recovery and Percentages (fcet) Reading (ppm) moisture content; angularity, additional facts). LIGHT BROWN 107125/3 CLAYET SILT WITH SOME BRAVEZ LOOSE DOY LOW PLASTICITY LOW DESITY 60% SICT ML NIA 150Pb 50 30% CUM 10% GAVET 100% 70.90 0.54-0 50 mL 0 SEE DESCRIBTION ABOUT 20% 10% 70% 1.0-2- 0 NA SO 100% ML 0 SEE DESCRIPTION ABOVE 20% 10%0 1.5-20-0 50 4---

_		_					
Boring Lo	cation	7				EPOT-South AREA	SWMU No: 33- BUILDING 536
			Start date and	time: <	9/25/9	4 0200	Completion data and time; 9/23/94 0950
13.	106 536	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Drilling Contr	ractor:	SAIC		Drilling Method: SLIDE HAMMER
DL	X_		Logged by:	7.6	PENDLET		
	58-33 -	-∞9	Total depth (fe	ect): /	.5' 131		Diameter (inches): 24 × 64 CORE BARREL
1		- 1	Sampler type a	and size (d	iameter and le	ength): SLIDE HE	MINETE WITH 2" X 6" CORE BARREL
			Samples collec	cted from t	ooring: 🗧		A,009B,009C
	Head-	Max. PID				·	Lithologic Description
Depth	space	Reading	Blows	Sample	Sample	Secondary Compounds	(USCS name; color; consistency plasticity; density;
(feet)	Reading	(ppm)	(6 inches)	Туре	Recovery	and Percentages	moisture content; angularity, additional facts) LIGHT BROWN 10412 5/3 CLAYEY.
0	-0		NA	So	100%	70% SUT	SILT, LOOSE, DRY, CON PLASTICITY AND
! !			 '		 	उठ्ये ट्या	TEVETT
į '	 		 '		 '	 '	GRAYISH
			 /	 	 '		
0.5+	-0	<u> </u>	N/A	SO	100%	60 % SUT	UN CAHTBROWN DYR 5/2 CLAYET SICT LOOSE DRY LOW PLASTICITY AND DENSITY (A POWDERY) GRAVEL SUBMIGURE 2-5 CM IN SIZE
. !		<u> </u>	<u> </u> '	 	<u> '</u>	30% CUY	THE POWDERY GRAVEL SUBANGULAR
. !		<u> </u>	<u> </u>	 	 '	10% STAVEL	2-5 cm a size
'			 	 	 	 '	
1.0-2-	- 0		NA	SO	100%0	60 % SILT	ml =
i '			<u> </u>	<u></u>		30 % Cur	SAME AS ABOVE (O.S)
1 '			<u> </u>	<u> </u>	<u> '</u>	60 % GBAUTZ	
 '			<u> '</u>		<u> </u> '		
1.5-3=				<u> </u>	<u> </u>		
i '			<u> </u>		 '		
4	<u></u>				<u> </u> '		,
<u> </u>	<u> </u>		<u> </u> '	<u> </u>	<u> </u>		
4			<u> </u>		<u> </u>		
4 '			<u> </u>		<u> </u>		
			<u> </u>				
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l '							
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Boring Location Project: TOOELE ARMY DEPOT-SOUTH AREA SWMU No: 33- BUILDING 536 9/23/24 9/23/94 1120 Start date and time: 1030 Completion data and time: Drilling Method: SCIDE Drilling Contractor: BLDG 536x \5-33-010 Logged by: PENDLETON 24 × 64 CORE BARREL 1.5' BLS Total depth (seet): Diameter (inches): SLIDE HAMMER WITH 2" X 64 CORE BARREL Sampler type and size (diameter and length): SB-33-0/04 0/08 0/0C Samples collected from boring: Max. PID Lithologic Description Head-Blows Sample Secondary Compounds (USCS name; color; consistency plasticity; density; Depth space Reading Sample Recovery and Percentages (fcet) Reading (ppm) (6 inches) Type moisture content; angularity, additional facts). BRAYISH BROWN 104125/2 CLAYEY 60% SICT NIA 100% 50 ML SILT, LOSE DRY; LOW PLASTICITY, LOW DENSITY, GRAVER, SURANGULAR. 30% eur -SUB POUNDER 10% GRAVEZ 100% 50 60% SILT 0.52 0 ML SEE DESCRIPTION AROUE 30% CLAY 10% CRAVEL 100% SO 1.0-2--70% SIT 0 ML SEE DESCRIPTION ABOUT 70% CIAY 10% GRAFT 1.5-20



Site Na	me: DCD	Bo	ring No.	SB	-33A-	11		Mon	itoring Well No. NA
Project	No. 03-6523-044	Su	rface Ele	ev. i	Not A	vaila	ble	Com	pletion Depth: 6'
L	No. NA		bed De						ry Depth: NA
	/State: Tooele Co./Utah		rt Date:	2	2/24/9	9			sh Date: 2/24/99
	ncountered Water: NA Static Water Le	vel:	NA					Grou	nd Cover: Shrubs, grasses&forbes
	g Equipment:				S	ampl			Personnel
Geopro	be rig; 1.25-inch OD x 2-foot sampler with stainless steel list	ners	Depth in feet	ple No.	Sample Recovery	Analysis Y/	Valves (Blows)	Lithology	G - Glenn Haupt D - Dan Plotts H - Brad Holdaway H -
uscs	DESCRIPTION		in feet	Sam	Sam	Lab	z	Lith	REMARKS
	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown			1	NA	Y	NA		SAIC01. Grab Sample.
	Slightly dense, slightly plastic, and moist. Root structures.	/	- 1 -						
GM	(1.5-3.5') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- 2 - 3 -	2	NR	Y	NA		SAIC02.
GM	(3.5-5.5') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- 4 - - 5 -	3	NR	Y	NA		SAIC03
	Notes: 1. Total depth of boring is approximately 6 feet BLS due to geoprobe refusal. 2. Borehole was abandoned using granular Ben-Seal bentonite and topped with an asphalt patch. 3. Boring location was marked with a 2 inch brass survey marker placed into the asphalt patch. The boring ID was stampled on top of the survey marker. 4. The drilling company was Dan's Field Service.								Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface



Site Na	me: DCD	Boring !	lo. S	B-3	33A-	12		Mon	itoring Well No. NA
Project	No. 03-6523-044	Surface				vaila	ble		pletion Depth: 14'
Fed ID	No. NA	Probed 1	Depth	: 14	4'			Rota	ry Depth: NA
	/State: Tooele Co./Utah	Start Da	te:	2/2	25/9	9			sh Date: 2/25/99
	ncountered Water: NA Static Water Le	vel: NA						Grou	and Cover: Shrubs, grasses&forbes
	g Equipment:		<u> </u>		S	ampl			Personnel
Geopro	bbe rig; 1.25-inch OD x 2-foot sampler with stainless steel lin		Sample No.		Sample Recovery	Analysis Y/	N Valves (Blows)	Lithology	G - Glenn HauptD - Dan PlottsH - Brad HoldawayH -
USCS	DESCRIPTION	in fe	Sam	֓֡֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	Samı	Lab	Ž	Lithc	REMARKS
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown	-	- 1		NA	Y	NA		SAIC01. Grab Sample.
	Slightly dense, slightly plastic, and moist. Root structures.	- 1	-	\top					
		 	-						
GM	(1.5-3.5') Silt with clay. Color: 10YR 5/3 brown. Loose, medium plastic, very moldable, and moist.	- 2 - - 3	- 2	N	NR	Y	NA		SAIC02.
		- 4	-	T					
GM	(4-6') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	- - 5 - - 6	- 3 -	N	NR	Y	NA		SAIC03
		- 7 - 8 - 9 - 10	-						
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color:	-	- 4	N	√R	Y	NA		SAIC04
	10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded gravel (up to 20 mm), and slightly moist.	- 11 - - 12	-						Field Duplicate collected.
ML	(12-14') Silt, trace course sand. Color: 10YR 5/4 yellowish brown. Moist.	- - 13 - - 14	-	5 N	JR	Y	NA		SAIC05 Field Duplicate collected.
	Notes:	- 		十	一				Notes:
	 Total depth of boring is approximately 14 feet BLS. Borehole was abandoned using granular Ben-Seal bentonite and topped with an asphalt patch. Boring location was marked with a 2 inch brass survey marker placed into the asphalt patch. The boring ID was stampled on top 	- 15 - -	-			İ			NA - Not Applicable NR - Not Recorded BLS - below land surface
	of the survey marker. 4. The drilling company was Dan's Field Service.	- - -	-						



Site N	ame: DCD	Boring No	. SE	-33A	-13		Mor	itoring Well No. NA
		Surface El				ble	_	ppletion Depth: 13.5'
		Probed De		13.5	<u>'</u>	_		ry Depth: NA
		tart Date:		2/24/9	99		-	sh Date: 2/24/99
	Incountered Water: NA Static Water Lev	el: NA	,				Grou	and Cover: Shrubs, grasses&forbes
	g Equipment:		<u> </u>	$\overline{}$	amp		г	Personnel
Geopri	obe rig; 1.25-inch OD x 2-foot sampler with stainless steel line	Depth in feet	e No.	Sample Recovery	Lab Analysis Y/	Valves (Blows)	ogy	G - Glenn Haupt D - Dan Plotts H - Brad Holdaway
USCS	DESCRIPTION .	Depth in feet	Samp	Sampl	Lab A	N Val	Lithology	H - REMARKS
ML	(0 to 0.5') Silt, some sand, some gravel. Color: 10YR 4/2 dark grayish brown. Slightly dense, slightly plastic, and moist. Root structures.		1	NA	Y	NA		SAIC01. Grab Sample.
GM	(1.5-3.5') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	- 2 3 -	2	NR	Y	NA		SAIC02.
GM	(3.5-5.5') Sandy silt with gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	- 4 - 5 - 	3	NR	Ÿ	NA		SAIC03
		- 6 - - 7 - - 8 - - 9 - - 10 -						
GW	(10-12') Silt and clay. Color: 10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded gravel (up to 20 mm), and slightly moist.	- 11 - - 12 -	4	.50'	Y	NA		SAIC04
ML	(12-13.5') Fine silt, trace fine sand.	- 13 - 	5	NR	Y	NA		SAIC05
	Notes: 1. Total depth of boring is approximately 13.5 feet BLS due to geoprobe refusal. 2. Borehole was abandoned using granular Ben-Seal bentonite and topped with an asphalt patch. 3. Boring location was marked with a 2 inch brass survey marker placed into the asphalt patch. The boring ID was stampled on top of the survey marker. 4. The drilling company was Dan's Field Service.	- 14 -						Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface



Site Na	ame: DCD	Bo	ring N	o. SI	3-33A	-14		Mon	itoring Well No. NA		
	No. 03-6523-044	+			Not A		ble	_	apletion Depth: 6'		
	No. NA		bed D					Rotary Depth: NA			
	/State: Tooele Co./Utah	-	rt Dat		2/24/9	99			sh Date: 2/24/99		
First E	ncountered Water: NA Static Water Le	vel:	NA					Grou	and Cover: Shrubs, grasses&forbes		
Drilling	g Equipment:				S	amp	es		Personnel		
Geopro	obe rig; 1.25-inch OD x 2-foot sampler with stainless steel li	ners	Dept	r (ple No.	Sample Recovery	Analysis Y/	Valves (Blows)	Lithology	G - Glenn Haupt D - Dan Plotts H - Brad Holdaway H -		
USCS	DESCRIPTION		in fee	Sam	San	lag de	Z	뜶	REMARKS		
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown			- 1	NA	Y	NA		SAIC01. Grab Sample.		
	Slightly dense, slightly plastic, and moist. Root structures.	/	- 1	-							
GM	(1.5-3.5') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- 2 - - 3	- 2 -	NR	Y	NA		SAIC02.		
GM	(3.5-5.5') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- 4 - - 5	- 3 - -	NR	Y	NA		SAIC03		
	 Notes: Total depth of boring is approximately 6 feet BLS due to geoprobe refusal. Borehole was abandoned using granular Ben-Seal bentonite and topped with an asphalt patch. Boring location was marked with a 2 inch brass survey marker placed into the asphalt patch. The boring ID was stampled on top of the survey marker. The drilling company was Dan's Field Service. 		- - - - - - - - - - - - - - - - - - -						Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface		



Site Na	Boring No. SB-33A-15 Monitoring Well No. NA									
	No. 03-6523-044	_	rface Ele			vaila	ble		pletion Depth: 6'	
	No. NA	Pro	bed De		_				ry Depth: NA	
	/State: Tooele Co./Utah		rt Date:	2	2/24/9	9		Finish Date: 2/24/99		
	ncountered Water: NA Static Water Le	vel:	NA					Ground Cover: Shrubs, grasses&forbes		
1	g Equipment:				S.	ampl			Personnel	
Geopro	be rig; 1.25-inch OD x 2-foot sampler with stainless steel lin	-		le No.	Sample Recovery	Analysis Y/	Valves (Blows)	logy	G - Glenn Haupt D - Dan Plotts H - Brad Holdaway	
uscs	DESCRIPTION		Depth in feet	Samp	Samp	Lab A	N Va	Lithology	H - REMARKS	
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown		- 1 -	1	NA	Y	NA		SAIC01. Grab Sample.	
GM	Slightly dense, slightly plastic, and moist. Root structures. (1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- 2 -	2	NR	Y	NA		SAIC02.	
GM	(3-5') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- 4 - - 5 -	3	NR	Y	NA		SAIC03	
	Notes: 1. Total depth of boring is approximately 6 feet BLS due to geoprobe refusal. 2. Borehole was abandoned using granular Ben-Seal bentonite and topped with an asphalt patch. 3. Boring location was marked with a 2 inch brass survey marker placed into the asphalt patch. The boring ID was stampled on top of the survey marker. 4. The drilling company was Dan's Field Service.								Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface	



Site Na	me: DCD	Boring No. SB-33A-16 Monitoring Well No. NA								
Project	No. 03-6523-044 S	urface El	ev.	Not A	vaila	ble	Completion Depth: 14'			
Fed ID	No. NA P	robed De	pth:	14'			Rotary Depth: NA			
		tart Date:		2/24/9	9			sh Date: 2/24/99		
	ncountered Water: NA Static Water Leve	1: NA					Grou	and Cover: Shrubs, grasses&forbes		
	g Equipment:		L_	S	ampl			Personnel		
Geopro	bbe rig; 1.25-inch OD x 2-foot sampler with stainless steel lines	Depth in feet	ple No.	Sample Recovery	Lab Analysis Y/	Valves (Blows)	Lithology	G - Glenn HauptD - Dan PlottsH - Brad HoldawayH -		
USCS	DESCRIPTION	in feet	Sam	Sam	la P	> Z	Lith	REMARKS		
	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown Slightly dense, slightly plastic, and moist. Root structures.	- 1 -	1	NA	Y	NA		SAIC01. Grab Sample.		
GM	(1.5-3.5') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	- 2 - - 3 - - 4 -	2	NR	Y	NA		SAIC02.		
		 - 5 -		270	1,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	- 6 - - 7 -	3	NR	Y	NA		SAIC03		
		- 8 - - 9 - - 10 -								
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color: 10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded gravel (up to 20 mm), and slightly moist.	- 11 - - 12 -	4	NR	Y	NA		SAIC04		
ML	(12-13.6') Fine silt, trace fine sand.	- 13 -		NR	Y	NA		SAIC05		
	Notes: 1. Total depth of boring is approximately 14 feet BLS due to geoprobe refusal. 2. Borehole was abandoned using granular Ben-Seal bentonite and topped with an asphalt patch. 3. Boring location was marked with a 2 inch brass survey marker placed into the asphalt patch. The boring ID was stampled on top of the survey marker. 4. The drilling company was Dan's Field Service.							Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface		



Site Name: DCD Boring No. SB-33A-17 & 17A Monitoring Well No. NA											
Projec		urface							pletion Depth: 13.5'		
Fed ID	No. NA	robed	Dep	th:	13.5'			Rota	ry Depth: NA		
County	//State: Tooele Co./Utah Si	tart D	ate:	2	2/24/9	9		Finis	sh Date: 2/24/99		
First E	ncountered Water: NA Static Water Level: NA							Ground Cover: Shrubs, grasses&forbes			
Drillin	g Equipment:				S	ampl	es	Personnel			
Geopro	obe rig; 1.25-inch OD x 2-foot sampler with stainless steel liners.			Sample No.	Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	logy	G - Glenn Haupt D - Dan Plotts H - Brad Holdaway		
USCS	DESCRIPTION	De in f	pth eet	Samp	Samp	Lab A	N Va	Lithology	H - REMARKS		
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown	-	-	1	NA	Y	NA	mount.	SAIC01. Grab Sample.		
	Slightly dense, slightly plastic, and moist. Root structures.	1- 1	-						·		
	/	-	_			1			_		
GM	(1.5-3.5') Sandy silt and gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	- 2 - - 3	-	2	NR	Y	NA		SAIC02. Rocky gravelly soil. Second sample collected (17a).		
G) (- 4 - - 5	-		NR	Y	NIA				
GM ———	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	- - 6 - - 7	-	3	INK	ĭ	NA		SAIC03. A Duplicate sample was also collected and combined with this sample due to volume requirements.		
		- 8 - - 9 -	-		1			,			
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color: 10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded gravel (up to 20 mm), and slightly moist	- - 11 - - - 12	-	4	0.5'	Y	NA		SAIC04		
ML	(12-14') Silt, trace fine sand.	- 13 - 13 - 14	- 3 - -	5	NR	Y	NA		SAIC05		
	Notes: 1. Total depth of boring is approximately 13.5 feet BLS due to geoprobe refusal. 2. Borehole was abandoned using granular Ben-Seal bentonite and topped with an asphalt patch. 3. Boring location was marked with a 2 inch brass survey marker placed into the asphalt patch. The boring ID was stampled on top	- 15	-						Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface		
	of the survey marker. 4. The drilling company was Dan's Field Service.	<u>-</u>	- -								



Site Na	ame: DCD	Boring No	. SB	-33A	-18		Monitoring Well No. NA			
	No. 03-6523-044	Surface El				ble				
_	No. NA	Probed De						ary Depth: NA		
	//State: Tooele Co./Utah	Start Date		2/24/9				sh Date: 2/24/99		
	ncountered Water: NA Static Water Le						Grou	and Cover: Shrubs, grasses&forbes		
	g Equipment:		Τ	S	amp	les		Personnel		
Geoprobe rig; 1.25-inch OD x 2-foot sampler with stainless ste		Depth in feet	le No.	Sample Recovery	Lab Analysis Y/	N Valves (Blows)	Lithology	G - Glenn Haupt D - Dan Plotts H - Brad Holdaway		
USCS	DESCRIPTION	in feet	Samp	Samp	e Q	> ×	Litho	H - REMARKS		
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown	III TOOL	1	NA	Y	NA		SAIC01. Grab Sample.		
IVIL	Slightly dense, slightly plastic, and moist. Root structures.	- 1 -	 	1111	Ť	1		J. Leon. Grab Sample.		
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown.	- - 	2	NR	Y	NA	X 10 11 X 10	SAIC02.		
G.W.	Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	- 2 - 3 -						5.11 002.		
		- 4 - - 5 -								
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	- 6 - - 7 -	3	NR	Y	NA		SAIC03		
		- 8 - - 9 - - 10 -								
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color: 10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded gravel (up to 20 mm), and slightly moist.	- 11 - - 12 -	4	NR	Y	NA		SAIC04		
ML	(12-14') Silt, trace fine sand.	- 13 - - 14 -	5	NR	Y	NA		SAIC05. Hardpan encountered 13.7'.		
	Notes: 1. Total depth of boring is approximately 13.7 feet BLS due to geoprobe refusal. 2. Borehole was abandoned using granular Ben-Seal bentonite and topped with an asphalt patch. 3. Boring location was marked with a 2 inch brass survey marker placed into the asphalt patch. The boring ID was stampled on top of the survey marker. 4. The drilling company was Dan's Field Service.	- 15						Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface		



Site Name: DCD Boring No. SB-33A-19								Monitoring Well No. NA			
Project	No. 03-6523-044		face Ele	_			ble	Completion Depth: 7'			
Fed ID	No. NA	Prol	bed De	pth:	7'			Rota	ry Depth: NA		
County	/State: Tooele Co./Utah								sh Date: 2/24/99		
First E	ncountered Water: NA Static Water Le	vel:	NA					Grou	and Cover: Shrubs, grasses&forbes		
Drillin	g Equipment:				S	ampl	es		Personnel		
Geopro	bbe rig; 1.25-inch OD x 2-foot sampler with stainless steel lin	rig; 1.25-inch OD x 2-foot sampler with stainless steel liners.		o. ecove sis Y (Blow				Lab Analysis Y/	N Valves (Blows)	logy	G - Glenn Haupt D - Dan Plotts H - Brad Holdaway
USCS	DESCRIPTION		Depth in feet	Samp	Samp	Lab /	N Va	Lithology	H - REMARKS		
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown Slightly dense, slightly plastic, and moist. Root structures.		- 1 -	1	NA	Y	NA		SAIC01. Grab Sample.		
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- 2 3 -	2	NR	Y	NA		SAIC02.		
		-	- 4 - - 5 -								
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	-	- 6 - 	3	1.0	Y	NA		SAIC03. Hardpan at 6'. Geoprobe refusal at 7'.		
	 Notes: Total depth of boring is approximately 7 feet BLS. Borehole was abandoned using granular Ben-Seal bentonite and topped with an asphalt patch. Boring location was marked with a 2 inch brass survey marker placed into the asphalt patch. The boring ID was stampled on top of the survey marker. The drilling company was Dan's Field Service. 								Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface		



Site Na	me: DCD	No.	SB	-33A-	19FI	5	Monitoring Well No. NA				
	No. 03-6523-044	Surfac		_					pletion Depth: 7'		
	No. NA	Probe	i De	oth:	7'				ry Depth: NA		
County	/State: Tooele Co./Utah		Start Date: 2/24/99 Finish Date:								
First E	ncountered Water: NA Static Water Le	evel: N	Α					Grou	Finish Date: 2/24/99 Ground Cover: Shrubs, grasses&forbes		
Drilling	g Equipment:				S	ampl	es		Personnel		
Geoprobe rig; 1.25-inch OD x 2-foot sampler with stainless steel li			epth feet	ple No.	Sample Recovery	Analysis Y/	N Valves (Blows)	Lithology	G - Glenn Haupt D - Dan Plotts H - Brad Holdaway H -		
USCS	DESCRIPTION	in	feet	Sam	Sall I	rap qe	>	i t i	REMARKS		
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown		-	1	NA	Y	NA		SAIC01. Grab Sample.		
	Slightly dense, slightly plastic, and moist. Root structures.	<u> </u>	1 -			-			o. n.com one despite		
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	- - -	2 - 3 -	2	NR	Y	NA		SAIC02D.		
		-	4 - - 5 -								
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	-	6 - 7 -	3	NR	Y	NA		SAIC03D.		
	Notes: 1. Total depth of boring is approximately 7 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite and topped with an asphalt patch. 3. Boring location was marked with a 2 inch brass survey marker placed into the asphalt patch. The boring ID was stampled on top of the survey marker. 4. The drilling company was Dan's Field Service.	-							Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface		



Site Name: DCD Boring No. SB-33A-20 Monitoring Well N										
	No. 03-6523-044		rface Ele				ble		pletion Depth: 7'	
	No. NA		bed De					Rotary Depth: NA		
	/State: Tooele Co./Utah	-	rt Date:		2/23/9	9		Finish Date: 2/23/99		
	ncountered Water: NA Static Water Le							Ground Cover: Shrubs, grasses&forbes		
	g Equipment:			1	S	ampl	es		Personnel	
	Geoprobe rig; 1.25-inch OD x 2-foot sampler with stainless steel I					T.	T -		G - Glenn Haupt	
1	2				Sample Recovery	Analysis Y/	N Valves (Blows)		D - Dan Plotts	
				و.	ě	ysi	(B)		· ·	
			· · · · · · · · · · · · · · · · · · ·	e	e	E E	Š	80	H - Brad Holdaway	
			Depth in feet	d d	l g	Lab /	\sqr	Lithology	H -	
	DESCRIPTION		in feet	လ္တ				I	REMARKS	
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown			1	NA	Y	NA		SAIC01. Grab Sample.	
	Slightly dense, slightly plastic, and moist. Root structures.	_	- 1 -	<u> </u>	ļ					
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown.			2	NR	Y	NA		SAIC02.	
:	Loose, slightly plastic, subangular to subrounded gravel		- 2 -			Ì				
	(up to 20 mm), poorly sorted, and moist.									
			- 3 -	ļ		 				
			- 4 -		1					
CM	(5.71) Co. 1. (14.1) 10. (15.71) Co. 1. (10. 10. 10. 10. 10. 10. 10. 10. 10. 10.		- 5 -	3	NR	Y	NA	83334.8	EARCO2	
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown.			3	NK	I	INA		SAIC03.	
	Loose, slightly plastic, subangular to subrounded gravel		- 6 -							
	(up to 20 mm), poorly sorted, and moist.		- 7 -							
	Notes:		- <i>1</i> -		-				Notes:	
	Total depth of boring is approximately 7 feet BLS due to								NA - Not Applicable	
	geoprobe refusal.								NR - Not Recorded	
	Borehole was abandoned using granular Ben-Seal bentonite								BLS - below land surface	
	and topped with an asphalt patch.								BES DOIOW RAIRE SUITAGE	
	3. Boring location was marked with a 2 inch brass survey marker									
	placed into the asphalt patch. The boring ID was stampled on top									
	of the survey marker.									
	4. The drilling company was Dan's Field Service.									
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Site Na	ring No.	SB	-33A-	21		Monitoring Well No. NA					
Project	No. 03-6523-044	Sur	face Ele	ev. l	Not A	vaila	ble	Completion Depth: 14'			
Fed ID	No. NA	Pro	bed De	pth:	14'			Rota	ry Depth: NA		
	//State: Tooele Co./Utah	Sta	rt Date:	2	2/23/9	9			sh Date: 2/23/99		
First E	ncountered Water: NA Static Water Le	evel:	NA					Grou	nd Cover: Shrubs, grasses&forbes		
	g Equipment:				Samples				Personnel		
Geopro	bbe rig; 1.25-inch OD x 2-foot sampler with stainless steel li	iners	Depth in feet	ıple No.	Sample Recovery	Lab Analysis Y/	N Valves (Blows)	Lithology	G - Glenn Haupt D - Dan Plotts H - Brad Holdaway H -		
uscs	DESCRIPTION		in feet	San	San	Lab	z	吉	REMARKS		
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown Slightly dense, slightly plastic, and moist. Root structures.		- 1 -	1	NA	Y	NA		SAIC01. Grab Sample.		
GM 	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- 2 - - 2 - - 3 -	2	NR	Y	NA		SAIC02.		
			- 4 - - 5 -								
GM ———	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- 6 - - 7 -	3	NR	Y	NA		SAIC03		
			- 8 - - 9 - - 10 -								
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color: 10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded gravel (up to 20 mm), and slightly moist.		 - 11 - 	4	NR	Y	NA		SAIC04		
ML	(12-14') Silt, trace fine sand.		- 13 - - 14 -	5	NR	Y	NA		SAIC05.		
	Notes: 1. Total depth of boring is approximately 14 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite and topped with an asphalt patch. 3. Boring location was marked with a 2 inch brass survey marker placed into the asphalt patch. The boring ID was stampled on top of the survey marker. 4. The drilling company was Dan's Field Service.								Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface		



Site Na	ame: DCD	ing No	. SE	-33A	-22		Monitoring Well No. NA				
Project	No. 03-6523-044	-	face El				ble		pletion Depth: 13.9'		
Fed ID	No. NA	Prol	bed De	pth:	13.9			Rota	ry Depth: NA		
County	/State: Tooele Co./Utah	Star	t Date:	: 2	2/24/9	9		Finis	sh Date: 2/24/99		
First E	ncountered Water: NA Static Water Le	vel:	NA					Ground Cover: Shrubs, grasses&forbe			
Drillin	g Equipment:		_		S	ampl	es		Personnel		
Geopro	bbe rig; 1.25-inch OD x 2-foot sampler with stainless steel lin		Depth in feet	ole No.	Sample Recovery	Lab Analysis Y/	Valves (Blows)	Lithology	G - Glenn Haupt D - Dan Plotts H - Brad Holdaway H -		
USCS	DESCRIPTION		in feet	Sam	Samı	Lab	ž	Lith	REMARKS		
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown Slightly dense, slightly plastic, and moist. Root structures.		1 -	1	NA	Y	NA		SAIC01. Grab Sample.		
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	-	2 -	2	NR	Y	NA		SAIC02.		
		- - -	- 4 - - 5 -								
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	-	6 - 7 -	3	NR	Y	NA		SAIC03		
		- - - -	8 - 9 - 10 -								
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color: 10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded gravel (up to 20 mm), and slightly moist.	1	11 -	4	NR	Y	NA		SAIC04		
ML	(12-13.6') Silt, trace fine sand.	-	- 13 -	5	NR	Y	NA		SAIC05. Hardpan reached at 13.6'		
	Notes: 1. Total depth of boring is approximately 13.9 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite and topped with an asphalt patch. 3. Boring location was marked with a 2 inch brass survey marker placed into the asphalt patch. The boring ID was stampled on top of the survey marker. 4. The drilling company was Dan's Field Service.	- - - -							Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface		



Site Na	ame: DCD	ring No.	SB	-33A	-23		Monitoring Well No. NA					
Project	No. 03-6523-044		rface Ele				ble	Completion Depth: 13.7'				
Fed ID	No. NA	Pro	bed De	pth:	13.7'			Rota	ry Depth: NA			
_	/State: Tooele Co./Utah	Start Date: 2/23/99 Finish Date:							sh Date: 2/23/99			
	ncountered Water: NA Static Water Le	evel:	NA					Grou	Ground Cover: Shrubs, grasses&forbes			
	g Equipment:			Samples			es		Personnel			
Geopro	bbe rig; 1.25-inch OD x 2-foot sampler with stainless steel li	ners	Depth in feet	e No.	Sample Recovery	Analysis Y/	Valves (Blows)	ogy	G - Glenn Haupt D - Dan Plotts H - Brad Holdaway			
USCS	DESCRIPTION		Depth in feet	Sampl	Sampl	Lab A	N Val	Lithology	H - REMARKS			
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown Slightly dense, slightly plastic, and moist. Root structures.	/	 - 1 -	1	NA	Y	NA		SAIC01. Grab Sample.			
	(1.5-3.5') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- 2 - - 3 - - 4 -	2	NR	Y	NA		SAIC02.			
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown.		- 5 <i>-</i>	3	NR	Y	NA		SAIC03			
	Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- 6 <i>-</i> - <i>-</i> - 7 -			•			SAIC03			
	·	i	- 8 - - 9 - - 0 -									
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color: 10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded gravel (up to 20 mm), and slightly moist.		 - 11 - - 12 -	4	NR	Y	NA		SAIC04			
ML	(12-13.7') Fine silt, trace fine sand.		 - 13 - 	5	NR	Y	NA		SAIC05. Refusal at 13.7'.			
	Notes: 1. Total depth of boring is approximately 13.7 feet BLS due to geoprobe refusal. 2. Borehole was abandoned using granular Ben-Seal bentonite and topped with an asphalt patch. 3. Boring location was marked with a 2 inch brass survey marker placed into the asphalt patch. The boring ID was stampled on top of the survey marker. 4. The drilling company was Dan's Field Service.		- 14 - - 15 - 						Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface			



Site Na	me: DCD	Boring No. SB-33A-24 Monitoring Well No. NA												
Project	No. 03-6523-044		face Ele			vaila	ble		ppletion Depth: 13'					
	No. NA	Pro	bed De	pth:	13'				ry Depth: NA					
	/State: Tooele Co./Utah	_	rt Date:	- 2	2/24/9	9			sh Date: 2/24/99					
	ncountered Water: NA Static Water Le	vel:	NA					Grou	and Cover: Shrubs, grasses&forbes					
	g Équipment:				S	ampl	es	Personnel						
Geopro	be rig; 1.25-inch OD x 2-foot sampler with stainless steel li	S-inch OD x 2-foot sampler with stainless steel liners. ON 0. O		No. Recove		Z Z -{ ' v		Z 62 5' 0			nalysis Y/		ygy	G - Glenn Haupt D - Dan Plotts H - Brad Holdaway
USCS	DESCRIPTION		Depth in feet	Sampl	Sampl	Lab A	N Valves	Lithology	H - REMARKS					
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown Slightly dense, slightly plastic, and moist. Root structures.	_	1 -	1	NA	Y	NA		SAIC01. Grab Sample.					
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- 2 - - 3 -	2	NR	Y	NA		SAIC02.					
			- 4 - - 5 -											
GM 	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- 6 - - 7 -	3	NR	Y	NA		SAIC03					
			- 8 - - 9 - - 10 -											
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color: 10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded gravel (up to 20 mm), and slightly moist.		 - 11 - - 12 -	4	NR	Y	NA		SAIC04					
ML	(12-13') Fine silt, trace fine sand.		- 13 -	5	NR	Y	NA		SAIC05. Geoprobe Refusal at 13'.					
	Notes: 1. Total depth of boring is approximately 13 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite and topped with an asphalt patch. 3. Boring location was marked with a 2 inch brass survey marker placed into the asphalt patch. The boring ID was stampled on top of the survey marker. 4. The drilling company was Dan's Field Service.								Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface					



Site Name: DCD Boring N						25		Monitoring Well No. NA			
	No. 03-6523-044		rface Ele				ble	Completion Depth: 15.5'			
Fed ID	No. NA	Pro	bed De	pth:	15.5'			Rotary Depth: NA			
County	/State: Tooele Co./Utah	Sta	rt Date:	2	2/23/9	9		Finish Date: 2/23/99			
	ncountered Water: NA Static Water Le	vel:	NA					Grou	nd Cover: Shrubs, grasses&forbes		
Drillin	g Equipment:				S	ampl	es		Personnel		
Geopro	obe rig; 1.25-inch OD x 2-foot sampler with stainless steel lin	ig: 1.25-inch OD x 2-foot sampler with stainless steel liners.		Analysis Y/	N Valves (Blows)	Lithology	G - Glenn Haupt D - Dan Plotts H - Brad Holdaway H -				
USCS	DESCRIPTION		in feet	äm	Sam	Lab	>	Lith	REMARKS		
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown			1	NA	Y	NA		SAIC01. Grab Sample.		
"	Slightly dense, slightly plastic, and moist. Root structures.		- 1 -	┝╧	1111	H	11/1		oracor. Grab bampe.		
ML	(1-3') Silt with clay. Color: 10YR 5/3 brown. Loose, medium plastic, very moldable, and moist.		- 2 -	2	NR	Y	NA		SAIC02. Void space below grade, poor Geoprobe recovery. Driller moved 1' to side of borehole to push new sample.		
			 - 4 - - 5 -								
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		 - 6 - - 7 -	3	NR	Y	NA		SAIC03		
			- 8 - - 9 - - 10 -								
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color: 10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded gravel (up to 20 mm), and slightly moist.		11 - 12 -	4	NR	Y	NA		SAIC04		
			- 13 - - 14 - - 15 -								
	(15-15.5')				NR	N	NA		Analytical sample not collected.		
									·		



Site Name: DCD		Borin	g No	. S	B-33	3A-2	25	Moni	toring Well No. NA
Drilling Equipment:						mpl			Personnel
Geopro	be rig; 1.25-inch OD x 2-foot sampler with stainless steel liners.	Depth in fee	hure	Sample No.	Sample Recovery	Lab Analysis Y/	N Valves (Blows)	FID or PID LEL Readings	G - Glenn Haupt D - Dan Plotts H - Brad Holdaway
	PEOCEMENT	Depti	oisi	闡	d'u	æ	\sqr	EEL EEL	
USCS	DESCRIPTION	in fee	tΣ	Š	Š	7	Z_	日口	REMARKS
	Notes: 1. Total depth of boring is approximately 15.5 feet BLS.	_]						Notes: NA - Not Applicable
1	Geoprobe refusal.	_	_						NR - Not Recorded
	2. Borehole was abandoned using granular Ben-Seal bentonite	-	-						BLS - below land surface
	and topped with an asphalt patch.	-	-					Ì	
	3. Boring location was marked with a 2 inch brass survey marker	-	-		1				·
•	placed into the asphalt patch. The boring ID was stampled on top	-	-						
	of the survey marker.	-	-[ĺ				[1
	4. The drilling company was Dan's Field Service.	-	1		İ				
	5. Hit hard pan at 15'.]-	1	1	ŀ				
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Site Na	me: DCD	Boring	No	SR	-33A.	-26		Mon	itoring Well No. NA	
Project No. 03-6523-044					SB-33A-26 v. Not Available				Completion Depth: 15'	
Fed ID No. NA		L			oth: 15'				Rotary Depth: NA	
County/State: Tooele Co./Utah			Start Date:		2/23/99				Finish Date: 2/23/99	
First Encountered Water: NA Static Water Lev								Ground Cover: Shrubs, grasses&forbes		
Drilling Equipment:					Samples				Personnel	
Geoprobe rig; 1.25-inch OD x 2-foot sampler with stainless steel lin		Depth in feet		No.	Sample Recovery	Lab Analysis Y/	(Blows)	gy	G - Glenn Haupt D - Dan Plotts H - Brad Holdaway	
USCS	DESCRIPTION	Do	epth feet	ample	ample	ab A	N Valves	Lithology	H - REMARKS	
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown	111	1001	1	NA	Y	NA		SAIC01. Grab Sample.	
l''''	Slightly dense, slightly plastic, and moist. Root structures.	1	1 -	 ^	110	┢	1117		ornoon. Orab bampie,	
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel	-	- 2 -	2	NR	Y	NA		SAIC02.	
	(up to 20 mm), poorly sorted, and moist.									
		-	- 4 - - 5 -							
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	- - -	6 - 7 -	3	NR	Y	NA		SAIC03	
		-	- 8 <i>-</i> - 9 -							
GW	(10, 12)) Carrel anno matient to account and trace all Colors	- 1	0 -	4	NR	Y	NA		CATONA	
G W	(10-12') Gravel, some medium to coarse sand, trace silt. Color: 10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded gravel (up to 20 mm), and slightly moist.	-	- - -	*	IAK	1	INA.		SAIC04	
L		- 1	2 -							
		- - 1	- 3 -							
ML	(13-15') Silt, trace fine sand.	- - -	-	5	NR	Y	NA		SAIC05. Driller hit hardpan at 14'.	
		- 1 -	5 -							
i		-	- -							
		- -	- -							



Site Na	me: DCD	Boring	, No	. S	B-33	A-2	26	Monit	oring Well No. NA
Drilling	g Equipment:		L			mpl			Personnel
	be rig; 1.25-inch OD x 2-foot sampler with stainless steel liners.				بڑ	λ	(sv		G - Glenn Haupt
				[.	8	is	<u></u>	são	D - Dan Plotts
			ြ	ž	Se l	alys	S (PP agging	H - Brad Holdaway
		Depth	텵	Be	岩	ΑĎ	alve	5 a	Н -
USCS	DESCRIPTION	Depth in feet	V ioi	Sample No.	Sample Recovery	Lab Analysis	N Valves (Blows)	FID or PID LEL Readings	REMARKS
	Notes:	-		-	-	_			Notes:
	1. Total depth of boring is approximately 15 feet BLS.			1			l		NA - Not Applicable
	2. Borehole was abandoned using granular Ben-Seal bentonite								NR - Not Recorded
	and topped with an asphalt patch.								BLS - below land surface
	3. Boring location was marked with a 2 inch brass survey marker								
	placed into the asphalt patch. The boring ID was stampled on top								
1	of the survey marker.		·						
	4. The drilling company was Dan's Field Service.	- -		1				1	
	5. Hit hard pan at 14'.						1		
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Site Na	me: DCD	ing No.	SB	-33A-	27		Monitoring Well No. NA						
Project	No. 03-6523-044	Sur	face Ele	ev. l	Not A	vaila	ble	Completion Depth: 14'					
Fed ID	No. NA	Pro	bed Dep	pth:	14'			Rota	ry Depth: NA				
County	/State: Tooele Co./Utah	Sta	rt Date:	2	2/23/9	9		Finis	sh Date: 2/23/99				
First E	ncountered Water: NA Static Water Le	vel:	NA					Grou	and Cover: Shrubs, grasses&forbes				
Drilling	g Equipment:				S	ampl	es		Personnel				
Geopro	be rig; 1.25-inch OD x 2-foot sampler with stainless steel lin	ners.	1		1		Depth of No.		Sample Recovery	Lab Analysis Y/	N Valves (Blows)	ogy	G - Glenn Haupt D - Dan Plotts H - Brad Holdaway
USCS	DESCRIPTION		Depth in feet	Sampl	Sampl	Lab A	N Val	Lithology	H - REMARKS				
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown	\dashv		1	NA	Y	NA		SAIC01. Grab Sample.				
	Slightly dense, slightly plastic, and moist. Root structures.		- 1 -	 		<u> </u>	1		S. H. G. L.				
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- 2 - - 3 -	2	NR	Y	NA		SAIC02.				
			- 4 - - 5 -										
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- 6 - - 7 -	3	NR	Y	NA		SAIC03				
			- 8 - - 9 - - 10 -			ļ							
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color: 10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded gravel (up to 20 mm), and slightly moist.		- 11 - - 12 -	4	NR	Y	NA		SAIC04				
ML	(12-14') Silt, trace fine sand.		- 13 - - 14 -	5	NR	Y	NA		SAIC05				
	Notes: 1. Total depth of boring is approximately 14 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite and topped with an asphalt patch. 3. Boring location was marked with a 2 inch brass survey marker placed into the asphalt patch. The boring ID was stampled on top of the survey marker. 4. The drilling company was Dan's Field Service.		- 15 -						Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface				



	D.C.D.	-				6 -		15 -		
	ame: DCD		ing No				.1.1	Monitoring Well No. NA		
	t No. 03-6523-044		face El			vail	able	Completion Depth: 17'		
	No. NA		bed De					Rotary Depth: NA Finish Date: 2/22/99		
	//State: Tooele Co./Utah		t Date	2	2/22/9	<i>'</i> '				
	Incountered Water: NA Static Water Le	evel:	NA	Ι				Ground Cover: Shrubs, grasses&forbes		
I .	g Equipment:	ina		<u> </u>		ampl		1	Personnel	
Geopre	Geoprobe rig; 1.25-inch OD x 2-foot sampler with stainless steel				Sample Recovery	Υ/	(Blows)		G - Glenn Haupt	
			ြဲ	မ	Analysis Y/	(B)	١.	D - Dan Plotts		
			Depth in feet	S S	e R	nal	Valves	Lithology	H - Brad Holdaway	
		[]	Depth	ldu	du	Р А	Val	lol.	Н -	
USCS	DESCRIPTION	i	in feet	Sar	Sar	Lab	z	<u>;</u>	REMARKS	
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown	-		1	NA	Y	NA		SAIC01. Grab Sample.	
	Slightly dense, slightly plastic, and moist. Root structures.	<u> </u>	1 -							
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown.	T	-	2	NR	Y	NA		SAIC02	
	Loose, slightly plastic, subangular to subrounded gravel	-	· 2 -							
	(up to 20 mm), poorly sorted, and moist.	-	·				İ			
<u> </u>		_ -	. 3 -				<u> </u>			
		-								
		-	4 -							
	-									
CM	(5.71) South silt with some proved Cut 10VD 5/2 barries	- -	- 5 -	3	NR	Y	NA		EATCO2	
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown.	-	٠, -	3	NK	ľ	NA		SAIC03	
	Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	-	6 -							
	(up to 20 mm), poorty sorten, and moist.		7 -							
 		- -								
			8 -							
		<u>-</u>								
		-	9 -		İ					
		-	_							
l		-	10 -							
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color:	-	-	4	NR	Y	NA		SAIC04	
	10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded	-	11 -							
l	gravel (up to 20 mm), and slightly moist.	-	-	١ ,					1	
		-	12 -							
		T-	-							
}		-	13 -						!	
		-	-							
		-	14 -							
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		<u> </u> -	15 -							
ML	(15-17') Silt, trace fine sand.	-		5	NR	Y	NA		SAIC05	
		-	16 -						1	
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ame: DCD	Boring	No	. S				Monit	oring Well No. NA		
ng Equipment:				Sa				Personnel		
obe rig; 1.25-inch OD x 2-foot sampler with stainless steel liners.	Depth	sture	ple No.	ple Recovery	Analysis Y/	alves (Blows)	or PID Readings	G - Glenn Haupt D - Dan Plotts H - Brad Holdaway H -		
DESCRIPTION	in feet	Moi	Sam	Sarr	eg Q	N N		REMARKS		
Notes: 1. Total depth of boring is approximately 17 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite and topped with an asphalt patch. 3. Boring location was marked with a 2-inch brass survey marker placed into the asphalt patch. The boring ID was stamped on top of the survey marker. 4. The drilling company was Dan's Field Service.	in feet	MG	Sai	RS	8	Z	HI 371	Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface		
	DESCRIPTION Notes: 1. Total depth of boring is approximately 17 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite and topped with an asphalt patch. 3. Boring location was marked with a 2-inch brass survey marker placed into the asphalt patch. The boring ID was stamped on top of the survey marker.	Depth in feet Notes: 1. Total depth of boring is approximately 17 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite and topped with an asphalt patch. 3. Boring location was marked with a 2-inch brass survey marker placed into the asphalt patch. The boring ID was stamped on top of the survey marker.	Depth in feet Notes: 1. Total depth of boring is approximately 17 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite and topped with an asphalt patch. 3. Boring location was marked with a 2-inch brass survey marker placed into the asphalt patch. The boring ID was stamped on top of the survey marker.	DESCRIPTION Depth in feet W Notes: 1. Total depth of boring is approximately 17 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite and topped with an asphalt patch. 3. Boring location was marked with a 2-inch brass survey marker placed into the asphalt patch. The boring ID was stamped on top of the survey marker.	DESCRIPTION Depth in feet Notes: 1. Total depth of boring is approximately 17 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite and topped with an asphalt patch. 3. Boring location was marked with a 2-inch brass survey marker placed into the asphalt patch. The boring ID was stamped on top of the survey marker.	DESCRIPTION Depth in feet Notes: 1. Total depth of boring is approximately 17 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite and topped with an asphalt patch. 3. Boring location was marked with a 2-inch brass survey marker placed into the asphalt patch. The boring ID was stamped on top of the survey marker.	DESCRIPTION Depth in feet Notes: 1. Total depth of boring is approximately 17 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite and topped with an asphalt patch. 3. Boring location was marked with a 2-inch brass survey marker placed into the asphalt patch. The boring ID was stamped on top of the survey marker.	DESCRIPTION Depth in feet W S January Notes: 1. Total depth of boring is approximately 17 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite and topped with an asphalt patch. 3. Boring location was marked with a 2-inch brass survey marker placed into the asphalt patch. The boring ID was stamped on top of the survey marker.		



Site Name: DCD Boring No						29		Monitoring Well No. NA		
Project	No. 03-6523-044	Su	rface Ele	ev.	Not A	vaila	ble	Completion Depth: 14'		
Fed ID	No. NA	Pro	bed De	pth:	14'			Rota	ry Depth: NA	
	/State: Tooele Co./Utah	ᅳ	rt Date:		2/23/9	9			sh Date: 2/23/99	
First E	ncountered Water: NA Static Water Le	vel	NA					Grou	and Cover: Shrubs, grasses&forbes	
	g Equipment:				S	ampl	es		Personnel	
Geopro	bbe rig; 1.25-inch OD x 2-foot sampler with stainless steel li	x 2-foot sampler with stainless steel liners			Sample Recovery	Lab Analysis Y/	N Valves (Blows)	logy	G - Glenn Haupt D - Dan Plotts H - Brad Holdaway	
USCS	DESCRIPTION		Depth in feet	Samp	Samp	Lab/	N Va	Lithology	H - REMARKS	
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown Slightly dense, slightly plastic, and moist. Root structures.	_		1	NA	Y	NA		SAIC01. Grab Sample.	
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- 2 - - 2 - - 3 -	2	NR	Y	NA		SAIC02.	
CM	(6.71) Conduction with a second Colors 10VD 6/2 house		- 4 - - 5 -	3	NR	Y	NA		CALCOO	
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- 6 - - 7 -	3	INK.	1	NA		SAIC03	
			- 8 - - 9 - - 10 -							
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color:			4	NR	Y	NA	· · · · · · · · · · · · · · · · · · ·	SAIC04	
	10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded gravel (up to 20 mm), and slightly moist.		- 11 - - 12 -							
ML	(12-14') Silt, trace fine sand.		- 13 -	5	NR	Y	NA		SAIC05	
	Notes: 1. Total depth of boring is approximately 13.5 feet BLS due to geoprobe refusal. 2. Borehole was abandoned using granular Ben-Seal bentonite and topped with an asphalt patch. 3. Boring location was marked with a 2 inch brass survey marker placed into the asphalt patch. The boring ID was stampled on top of the survey marker. 4. The drilling company was Dan's Field Service.								Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface	

SWMU 33B OUTSIDE BUILDING 536

SWMU 33B SOIL BORING LOGS

Project: TOOELE ARMY DEPOT-SOUTH AREA SWMU No: 33, Building 536 Boring Location Start date and time: 9/20/94 Completion data and time; 9/20794 1205 Drilling Method: SLIDE HAMMER & HAND TOOLS Drilling Contractor: B164 536 Logged by: J. Pendleton .5' BLS Diameter (inches): Total depth (feet): Sampler type and size (diameter and length): 51, de Hemmer with 6" x 2" core bern Samples collected from boring: 58-33-001 A. COIB. COIC Max. PID Head-Lithologic Description Reading Secondary Compounds Depth space Blows Sample Sample (USCS name; color; consistency plasticity; density; (feet) Reading (ppm) (6 inches) Type Recovery and Percentages moisture content; angularity, additional facts). Light grey 108/25/1 Sandy gravel with some silt (sood touse) gravel poorly sorted subvounded - english (2-bein) Sand used to course sucued, poorly sorted, subvounded. Silt dry, 10050, 1000 plestocety 50 6m NIA 70% GRAVEL 0 0 100 20% SAND 1090 SILT 60 % GIMER GM Light grayions/ sandy grave with some 0.54 - 0 WIA 50 100 Silt gravel subengular - subrounded, sizz 2-5 cm send - fine to med grained wall sorted, Sitt, dry, loose, poor plasticity 25% SAND 15% SICT 75% Sitt &M Graysh brown wasksandy silt with some gravel, silt loose dry, low density, low consistency) 1.0-2-1-0 0 50 100 15% SAUN gravel sorted suprounded 10% GILAVER 1,53=

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Boring Lo	cation	72	Project: "	»ELE	Army D	EPOT - SOUTH AREA	SWMU No: 33 BULDAIG 536							
58-	33-002	1.	Start date and		, ,		Completion data and time; 9/20/94 100							
6		7	Drilling Conti	actor:	SAIC		Drilling Method: SLIDE Hammer W 2"x6" CORE Break							
 4	BLD6 536	·. \	Logged by:	J. P.	ad/eto-	~	· · · · · · · · · · · · · · · · · · ·							
			Total depth (f		5' BL		Diameter (inches):							
			Sampler type				MIMETE WITH 6" X Z" CORE BARREL							
			Samples colle			B-33-00ZA,								
	Head-	Max. PID				•	Lithologic Description							
Depth	space	Reading	Blows	Sample	Sample	Secondary Compounds	(USCS name; color; consistency plasticity; density;							
(feet)	Reading	(ppm)	(6 inches)	Туре	Recovery	and Percentages	moisture content; angularity, additional facts)							
0-	- 0	0	NA	So	100%	50% \$ SUT	MILIGHT GRAYISH BROWN 10425/2CLAYEY SILT WITH SOME GRAVEZ, LOOSE, DRY, LOW DENSITY							
			/			40% ELAY	GRAVEL POORLY SORTED SUBJOUNDED Z-SIM							
						10% 6MEZ	IN Die.							
051=	-0	0	NA	50	100%	50%	ML GRAYISH BROWN 10 YICS/Z CLAYEY SILT WITH SOME GRAVEZ, LOOSE, DRY LOW							
			, , ,			45% 30%	DEUSITY GRAVEL SUBROUNDED POORLY STREET							
						25%	300000000000000000000000000000000000000							
														
1.02	0	6	NA	50	40%		ML GRAISH BROWN 10 YR 10/2 CLAYEY SIET WITH SOME GRAVER, COOSE, DRY, LOW							
			1//		.00 / 0		WITH SOME GRAVER, COOSE, DRY, LOW							
			<u> </u>				DEVSITY, GRAVET SUBROUNDED							
		·					2-5 CM 12 5/4.							
125-5=	<u></u>													
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Project: TEAD - SOUTH SWMU No: 33 BUILDING 530 **Boring Location** Start date and time: 9/20/95 Completion data and time; 7/20/95 Drilling Method: SCIDE HAMMETE W 2" 16 CORE BARRET Drilling Contractor: Andleton Logged by: BCD 6 536 1.5'BLS Total depth (feet): Diameter (inches): SLIDE HAMMER WITH CORE BARREZ 2" X6" Sampler type and size (diameter and length): 58-31-003 Samples collected from boring: SB-33-003A ∞3B ∞3C Lithologic Description Head-Max. PID Secondary Compounds (USCS name; color; consistency plasticity; density; Reading Blows Sample Sample Depth Space and Percentages moisture content; angularity, additional facts). Reading (6 inches) Type Recovery (feet) _ (ppm) GRATISH BROWN 104RS/2 CLAYEY. ML 10°0 40 % SILT - Ä So 0 SILT WITH SOME GRAVEL, LOOSE 30% CUT DRY (LOW PLASTICITY LOW DEXKITY GRAVEZ Z-5 CM, SUB ANGULAR-20% 6RM SUB ROUNDED. GRATISH BROWN 10412 5/2 CLAYEY SILT LOOSE, DRY GRAVEL SUBREWADED 2-5 CM IN SIZE 100% 054-0 50% SICT ML NA SO 0 30% CLAY 2040 62442 LIGHT BROWN 10 412 5/2 CRAYEY 100% ML 40% SILT اسيمس،۱ SO SILT, LOOSE DRY GRAVEL 2-5 CM 48% CUY IN DIA. SUBROUNDED 20% GMER سهركرا ALA



Site Na	me: DCD	Во	ring N	o. SB	-33B-	30		Monitoring Well No. NA			
	No. 03-6523-044	_	rface E				ole	Completion Depth: 7'			
Fed ID	No. NA	Pro	bed D	epth:	7'			Rotary Depth: NA			
County	/State: Tooele Co./Utah	Sta	rt Date	: :	2/22/9	9		Finish Date: 2/22/99			
First E	ncountered Water: NA Static Water Level: 1	NΑ						Grou	Ground Cover: Shrubs,grasses&forbes		
Drillin	g Equipment:				S	ampl			Personnel		
Geopro	be rig; 1.25-inch OD x 2-foot sampler with stainless steel line:	rs.	Depti	Sample No.	Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	Lithology	G - Glenn Haupt D - Dan Plotts H - Brad Holdaway H -		
USCS	DESCRIPTION		in fee	Sam	Sam	Lab		Lith	REMARKS		
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown		_	- 1	NA	Y	NA		SAIC01. Grab Sample.		
"	Slightly dense, slightly plastic, and moist. Root structures.		- 1	- `	1	 	1		or recorr diab bampie.		
GМ	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- 2 - 2 - 3	- 2 - -	NR	Y	NA		SAIC02		
:			- - 4 - - 5	- - -				3043083800			
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- - 6 - - 7	- 3 - -	NR	Y	NA		SAIC03		
	Notes: 1. Total depth of boring is approximately 7 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite. 3. Boring location was marked with 1-inch diameter PVC pipe with affixed brass tag. The boring identification was stamped on the tag. 4. The drilling company was Dan's Field Service.		-						Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface		



Otto Maria	DCD	oring No. SB-33B-31 Monitoring Well No. NA									
Site Nam							abla.	Monitoring Well No. NA			
Fed ID N	No. 03-6523-044		face E			vaua	mie		ry Depth: NA		
			rt Date		2/22/9	<u> </u>					
	State: Tooele Co./Utah countered Water: NA Static Water Le			; <u>Z</u>	.12219	7		Finish Date: 2/22/99			
		5VC1	. INA	т	<u>c.</u>	ample	<u></u>	Ground Cover: Shrubs, grasses&forbes Personnel			
_	Drilling Equipment: Geoprobe rig; 1.25-inch OD x 2-foot sampler with stainless steel				~ ~			·			
Geoproo	orig, 1.25 men op a 2 root sampler with sammess seed r	moi	٠.		Ver	λ,	Mo		G - Glenn Haupt		
				No.	မွ	ysis	E	١. ١	D - Dan Plotts		
				Z	Sample Recovery	Analysis	Valves (Blows)	Lithology	H - Brad Holdaway		
			Depth	빌	lgt	PΑ	\Z	hol	Н -		
USCS D	DESCRIPTION		Depth in fee	Sai	Sar	Lab ,	z	<u>_</u>	REMARKS		
ML (0	to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown			- 1	NA	Y	NA		SAIC01. Grab Sample.		
	lightly dense, slightly plastic, and moist. Root structures.		- 1 ·								
GM (1	1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown.			- 2	NR	Y	NA		SAIC02		
	cose, slightly plastic, subangular to subrounded gravel		- 2 -	-							
(v	up to 20 mm), poorly sorted, and moist.			-							
			- 3 -	-	Ш						
				-		1					
		-	- 4	-							
				-							
		_	- 5	 			لبيا				
1 1	5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown.			- 3	1.0	Y	NA		SAIC03. At 7' driller hit void and		
	cose, slightly plastic, subangular to subrounded gravel		- 6	-					drill dropped ~1'.		
(u	up to 20 mm), poorly sorted, and moist.		- <u>-</u> '	-							
	T-A		- 7	1_	\vdash	$\vdash \vdash$	ļi		Nana		
	Notes:			1					Notes:		
	Total depth of boring is approximately 7 feet BLS.		<u> </u>	1					NA - Not Applicable		
	 Borehole was abandoned using granular Ben-Seal bentonite. Boring location was marked with 1-inch diameter PVC 		·	1					NR - Not Recorded		
				1					BLS - below land surface		
I 1	ipe with affixed brass tag. The boring identification was]							
	tamped on the tag. The drilling company was Dan's Field Service.		[] '							
]]	. The drilling company was Dan's Field Service.			1							
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Site Na	ime: DCD	ing No	. SB	-33B-	32		Monitoring Well No. NA				
	No. 03-6523-044		ace El				le	Completion Depth: 7'			
Fed ID	No. NA	Prol	oed De	pth:	7'			Rotary Depth: NA			
County	/State: Tooele Co./Utah	Star	t Date:	: 2	2/22/9	9		Finish Date: 2/22/99			
First E	ncountered Water: NA Static Water Level: 1	NA						Ground Cover: Shrubs,grasses&forbes			
Drillin	g Equipment:				S	ampl			Personnel		
Geopro	bbe rig; 1.25-inch OD x 2-foot sampler with stainless steel lines		Depth	Sample No.	Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	Lithology	G - Glenn Haupt D - Dan Plotts H - Brad Holdaway H -		
USCS	DESCRIPTION		in feet	Sam	Sam	Lab	> z	Cith	REMARKS		
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown			1	NA	Y	NA	********	SAIC01. Grab Sample.		
l''	Slightly dense, slightly plastic, and moist. Root structures.		. 1 -				- 17.		. I con Sample.		
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	-	2 -	2	NR	Y	NA		SAIC02 & 02D. Field Duplicate collected.		
		-	4 -					************			
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	-	- 6 - - 7 -	3	NR	Y	NA		SAIC03 & 03D Field Duplicate collected.		
	Notes: 1. Total depth of boring is approximately 7 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite. 3. Boring location was marked with 1-inch diameter PVC pipe with affixed brass tag. The boring identification was stamped on the tag. 4. The drilling company was Dan's Field Service.								Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface		



Site Na	ime: DCD	Boring No	. SB	-33B-	33		Monitoring Well No. NA			
	· · · · · · · · · · · · · · · · · · ·	Surface El				ole	Completion Depth: 7'			
		Probed De	pth:	7'			Rotary Depth: NA			
County	/State: Tooele Co./Utah	Start Date:		2/22/9	9		Finish Date: 2/22/99			
First E	ncountered Water: NA Static Water Level: N	Α					Grou	nd Cover: Shrubs, grasses&forbes		
Drillin	g Equipment:			S	ampl		,	Personnel		
Geopro	Geoprobe rig; 1.25-inch OD x 2-foot sampler with stainless steel lir		Sample No.	Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	Lithology	G - Glenn Haupt D - Dan Plotts H - Brad Holdaway H -		
USCS	DESCRIPTION	Depth in feet	San	San	Lab	Ź	<u> </u>	REMARKS		
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown		1	NA	Y	NA		SAIC01. Grab Sample.		
	Slightly dense, slightly plastic, and moist. Root structures.	1-1-		1						
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	- 2 - - 2 - - 3 -	2	NR	Y	NA		SAIC02		
		- 4 - - 4 - - 5 -								
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	 - 6 - - 7 -	3	NR	Y	NA		SAIC03		
	Notes: 1. Total depth of boring is approximately 7 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite. 3. Boring location was marked with 1-inch diameter PVC pipe with affixed brass tag. The boring identification was stamped on the tag. 4. The drilling company was Dan's Field Service.							Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface		



Site N	ime: DCD	Bo	ring No	s. SB	-33B-	34		Monitoring Well No. NA			
	No. 03-6523-044	_	face E				ole	Completion Depth: 7'			
	No. NA	_	bed D					Rotary Depth: NA			
County	/State: Tooele Co./Utah	_	rt Date		2/22/9	9		Finish Date: 2/22/99			
	ncountered Water: NA Static Water Level:	NA						Grou	nd Cover: Shrubs,grasses&forbes		
Drillin	g Equipment:				S	ampl	es		Personnel		
Geopre	bbe rig; 1.25-inch OD x 2-foot sampler with stainless steel line	ers.	Depth	Sample No.	Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	Lithology	G - Glenn Haupt D - Dan Plotts H - Brad Holdaway H -		
USCS	DESCRIPTION		in fee	Sam	Sam	Lab		[분	REMARKS		
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown		-	- 1	NA	Y	NA	**********	SAIC01. Grab Sample.		
1	Slightly dense, slightly plastic, and moist. Root structures.		- 1	. 	1	<u> </u>	1.11.		or nepri. Grab bampic.		
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- 2 - 3	2	NR	Y	NA		SAIC02		
			- - 4 - - 5_	-							
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- - 6 - - 7	3	NR	Y	NA		SAIC03		
	Notes: 1. Total depth of boring is approximately 7 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite. 3. Boring location was marked with 1-inch diameter PVC pipe with affixed brass tag. The boring identification was stamped on the tag. 4. The drilling company was Dan's Field Service.								Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface		



Sita Na	me: DCD	Bo	ring No.	SR.	33R-	35		Mon	itoring Well No. NA		
	No. 03-6523-044	_	face Ele				ole	Completion Depth: 7'			
	No. NA		bed Dep		_	anac	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Rotary Depth: NA			
	/State: Tooele Co./Utah	_	rt Date:		2/22/9	9		Finish Date: 2/22/99			
_	acountered Water: NA Static Water Level:							Ground Cover: Shrubs, grasses&forbes			
	g Equipment:				S	ampl	es	Personnel			
	be rig; 1.25-inch OD x 2-foot sampler with stainless steel line	rs.	.	Sample No.	Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	logy	G - Glenn Haupt D - Dan Plotts H - Brad Holdaway		
USCS	DESCRIPTION		Depth in feet	Sam	_	Lab	N N	Lithology	H - REMARKS		
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown Slightly dense, slightly plastic, and moist. Root structures.		<u>-</u> -	1	NA	Y	NA		SAIC01. Grab Sample.		
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- 2 - - 3 - - 4 -	2	NR	Y	NA		SAIC02		
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- 5 - - 6 - - 7 -	3	NR	Y	NA		SAIC03		
	Notes: 1. Total depth of boring is approximately 7 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite. 3. Boring location was marked with 1-inch diameter PVC pipe with affixed brass tag. The boring identification was stamped on the tag. 4. The drilling company was Dan's Field Service.				•				Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface		



Site Na	ime: DCD	Bor	ing No	. SB	-33B-	36		Mon	itoring Well No. NA	
	No. 03-6523-044	_	face El				ole	Completion Depth: 7'		
	No. NA	_	bed De					Rotary Depth: NA		
County	/State: Tooele Co./Utah	Star	rt Date:		2/22/9	9			sh Date: 2/22/99	
First E	ncountered Water: NA Static Water Level:	NA						Grou	nd Cover: Shrubs,grasses&forbes	
Drillin	g Equipment:				S	ampl	es _		Personnel	
Geopro	bbe rig; 1.25-inch OD x 2-foot sampler with stainless steel line	ers.	Depth	Sample No.	Sample Recovery	Lab Analysis Y/N	Valves (Blows)	0	G - Glenn Haupt D - Dan Plotts H - Brad Holdaway H -	
USCS	DESCRIPTION	ľ	in feet	Sam	San	Ep.		!	REMARKS	
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown		III ICCL	1	NA	Y	NA	annound.	SAIC01. Grab Sample.	
	Slightly dense, slightly plastic, and moist. Root structures.		- 1 -	 	1		1111		or neor. Grae bampie.	
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown.			2	NR	Y	NA		SAIC02	
}	Loose, slightly plastic, subangular to subrounded gravel	1	- 2 -	1		-			-	
	(up to 20 mm), poorly sorted, and moist.									
	7,5		- 3 -				[
			 - 4 -							
			- 5 -							
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown.			3	NR	Y	NA		SAIC03	
OIVI	Loose, slightly plastic, subangular to subrounded gravel		- 6 -			1	1 12 1		5/11003	
	(up to 20 mm), poorly sorted, and moist.	- 1								
	(up to 20 mm), poorly sortou, and motor		- 7 -	l						
	Notes:		 -	 				**********	Notes:	
ļ	Total depth of boring is approximately 7 feet BLS.								NA - Not Applicable	
	2. Borehole was abandoned using granular Ben-Seal bentonite.			ľ					NR - Not Recorded	
	3. Boring location was marked with 1-inch diameter PVC	1						1	BLS - below land surface	
	pipe with affixed brass tag. The boring identification was			l						
	stamped on the tag.									
	4. The drilling company was Dan's Field Service.	j.								
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Site Na	Boring No.	SB-	33B-	37		Monitoring Well No. NA			
	No. 03-6523-044	Surface Ele				ole	Completion Depth: 12'		
	No. NA	Probed De	pth:	12'			Rotary Depth: NA		
County	/State: Tooele Co./Utah	Start Date:	1	/24/0	0		Finish Date: 1/24/00		
First E	ncountered Water: NA Static Water Level:	NA					Grou	nd Cover: Shrubs,grasses&forbes	
	g Equipment:			S	ampl			Personnel	
Geopro	bbe rig; 1.25-inch OD x 2-foot sampler with stainless steel line	Depth	Sample No.	Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	Lithology	G - Wayne Stoner D - Dan Plotts H - Brad Holdaway H -	
USCS	DESCRIPTION	in feet	San	San	Lab	z	ĽĖ	REMARKS	
		- 1							
		- 10 -							
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color: 10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded gravel (up to 20 mm), and slightly moist. Notes:	 - 11 - - 12 -	4	1.6'	Y	NA		SAIC04. Notes:	
	 Total depth of boring is approximately 12 feet BLS. Borehole was abandoned using granular Ben-Seal bentonite. Boring location was marked with 1-inch diameter PVC pipe with affixed brass tag. The boring identification was stamped on the tag. The drilling company was Dan's Field Service. 							NA - Not Applicable NR - Not Recorded BLS - below land surface OD - outside diameter	



Site Name: DCD Boring					3-33B	-38		Monitoring Well No. NA				
Project	t No. 03-6523-044	Su	rface E	lev.	Not A	vail	able	Completion Depth: 7'				
Fed ID	No. NA	Pro	bed De	epth:	7'			Rotary Depth: NA				
County	//State: Tooele Co./Utah	Sta	Start Date 1/24/00 F						Finish Date: 1/24/00			
First E	ncountered Water: NA Static Water Le	vel	: NA					Grou	Ground Cover: Shrubs, grasses&forbes			
	g Equipment:				S	ampl			Personnel			
Geopro	obe rig; 1.25-inch OD x 2-foot sampler with stainless steel I	ine:	Depth in feet	nple No.	Sample Recovery	Lab Analysis Y/	N Valves (Blows)	Lithology	G - Wayne Stoner D - Dan Plotts H - Brad Holdaway H -			
USCS	DESCRIPTION		in feet	Sar	Sar	Lat	z	[∄	REMARKS			
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown Slightly dense, slightly plastic, and moist. Root structures.	/	- 1 -	1	NA	Y	NA		SAIC01. Grab Sample.			
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- 2 -	2	NR	Y	NA		SAIC02			
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown.		- 4 - - 5 -	3	NR	Y	NA		SAIC03			
	Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- 6 - - 7 -									
	Notes: 1. Total depth of boring is approximately 7 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite. 3. Boring location was marked with 1-inch diameter PVC pipe with affixed brass tag. The boring identification was stamped on the tag. 4. The drilling company was Dan's Field Service.		- 8 - - 9 - - 10 - - 11 - - 12 - 						Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface			



Site Na	ame: DCD	Boring No.	SB	33B-	39		Mon	itoring Well No. NA	
		Surface Ele				ble	Completion Depth: 8'		
		robed De					Rotary Depth: NA		
		Start Date:		/25/0	0		Finish Date: 1/25/00		
	ncountered Water: NA Static Water Level: NA						Grou	nd Cover: Shrubs,grasses&forbes	
Drillin	g Equipment:			S	ampl	es		Personnel	
Geopro	obe rig; 1.25-inch OD x 2-foot sampler with stainless steel liners.	Depth	Sample No.	Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	Lithology	G - Wayne Stoner D - Dan Plotts H - Brad Holdaway H -	
TIECE	DESCRIPTION		am	am	ap.	>	Ę		
-		in feet		NA	Y	NA		REMARKS	
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown	 	1	NA	<u> </u>	INA		SAIC01. Grab Sample (GS)	
C) (Slightly dense, slightly plastic, and moist. Root structures.	- 1 -	2	1.0	V	NA		SAIC02	
GM ———	(1-3') Sandy silt, with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	- 2 -	2	1.0	Y	NA		SAICU2	
		 - 4 - 5 -					c		
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	 - 6 - - 7 -	3	1.3'	Y	NA		SAIC03	
	Notes: 1. Geoprobe refusal at ~ 8 feet below land surface. 2. Borehole was abandoned using granular Ben-Seal bentonite. 3. Boring location was marked with 1-inch diameter PVC pipe with affixed brass tag. The boring identification was stamped on the tag. 4. The drilling company was Dan's Field Service.	- 8 -						Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface OD - outside diameter	



Site Na	me: DCD	Bot	ring No	SB	-33B-	40		Mon	itoring Well No. NA		
	No. 03-6523-044		face Ele				ole	Completion Depth: 7'			
	No. NA	_	bed De					Rotary Depth: NA			
	/State: Tooele Co./Utah	_	Start Date: 1/25/00					Finish Date: 1/25/00			
	ncountered Water: NA Static Water Level: 1								nd Cover: Shrubs,grasses&forbes		
	g Equipment:				S	ampl	es	•	Personnel		
,	be rig; 1.25-inch OD x 2-foot sampler with stainless steel liner	rs.	Depth	Sample No.	Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	Lithology	G - Wayne Stoner D - Dan Plotts H - Brad Holdaway H -		
USCS	DESCRIPTION		in feet	Sam	Sam	Lab	> 2	Cit.	REMARKS		
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown	\dashv		1	NA	Y	NA		SAIC01&01D. Grab Sample		
IVIL	Slightly dense, slightly plastic, and moist. Root structures.	A	- 1 -	 	1177	 	1111		(GS). Duplicate sample collected.		
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown.	\leftarrow		2	NR	Y	NA		SAIC02		
J	Loose, slightly plastic, subangular to subrounded gravel		- 2 -	i -		_			5.11632		
ı	(up to 20 mm), poorly sorted, and moist.										
1	(4p to 20 mail), poorty borota, and motor		- 3 -								
			 - 4 - 								
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown.			3	1.25	Y	NA		SAIC03&03D. Duplicate collected.		
G.M	Loose, slightly plastic, subangular to subrounded gravel		- 6 -		'.23	•			57 (1003 te 03 D. Dapheate conceted.		
	(up to 20 mm), poorly sorted, and moist.										
	tup to 20 min, poorly solved, and moisi.		- 7 -								
	Notes:	ヿ							Notes:		
ŀ	1. Geoprobe refusal at ~ 7 feet below land surface.								NA - Not Applicable		
•	Borehole was abandoned using granular Ben-Seal bentonite.								NR - Not Recorded		
İ	3. Boring location was marked with 1-inch diameter PVC								BLS - below land surface		
	pipe with affixed brass tag. The boring identification was	l							OD - outside diameter		
	stamped on the tag.										
	4. The drilling company was Dan's Field Service.	l									
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Site Name: DCD Boring No					41		Monitoring Well No. NA			
-		Surface El				ole	Completion Depth: 12'			
Fed ID	No. NA	robed De	pth:	12'			Rotary Depth: NA			
		Start Date:		1/25/0	0		Finish Date: 1/25/00			
	ncountered Water: NA Static Water Level: NA	Α	,				Grou	Ground Cover: Shrubs,grasses&forbes		
Drilling Equipment:			<u> </u>		ampl		Personnel			
Geopro	bbe rig; 1.25-inch OD x 2-foot sampler with stainless steel liners		Sample No.	Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	logy	G - Wayne StonerD - Dan PlottsH - Brad Holdaway		
USCS	DESCRIPTION	Depth in feet	Samp	Samp	Lab /	N Va	Lithology	H - REMARKS		
ML	(0 to 0.5') Silt, some sand, trace to some gravel. Color: 10YR 4/2 dark grayish brown. Slightly dense, slightly plastic, well rounded gravel, and moist. Root structures.	1	1	NA	Y	NA		SAIC01&01D. Grab Sample (GS). Duplicate sample collected.		
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	- 2 -	2	1.1'	Y	NA		SAIC02		
		- 4 - - 5 -								
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	- 6 - - 7 -	3	1.5'	Y	NA		SAIC03		
		- 8 - - 9 - - 10 -								
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color: 10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded gravel (up to 20 mm), and slightly moist.	- 11 - - 12 -	4	1.25	Y	NA		SAIC04		
	Notes: 1. Total depth of boring is approximately 12 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite. 3. Boring location was marked with 1-inch diameter PVC pipe with affixed brass tag. The boring identification was stamped on the tag. 4. The drilling company was Dan's Field Service.							Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface OD - outside diameter		



Cito No	me: DCD	Paring Ma	CD	22D	42		Mor	sitoning Wall No. NA	
	· · · · · · · · · · · · · · · · · · ·	Boring No Surface El				10	Monitoring Well No. NA Completion Depth: 12'		
		robed De			valläl)1C	Rotary Depth: NA		
							Finish Date: 1/25/00		
		start Date:		1/25/0	· ·				
	ncountered Water: NA Static Water Level: NA	4	1				Grou	nd Cover: Shrubs, grasses& forbes	
	g Equipment:		-		ampl		r	Personnel	
Geopic	Geoprobe rig; 1.25-inch OD x 2-foot sampler with stainless steel liners.			Sample Recovery	Lab Analysis Y/N	N Valves (Blows)		G - Wayne Stoner	
			6	သိ	sis/	Ē		D - Dan Plotts	
			Sample No.	Ř	lal)	es es	gy	H - Brad Holdaway	
		Depth	횰	ğ	Ā	/al/	ρί	H -	
USCS	DESCRIPTION	in feet	Sar	San	Lak	ź	Lithology	REMARKS	
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown		1	NA	Y	NA		SAIC01. Grab Sample.	
	Slightly dense, slightly plastic, and moist. Root structures.	/ <u>- T -</u>							
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown.	T	2	1.0'	Y	NA		SAIC02	
	Loose, slightly plastic, subangular to subrounded gravel	- 2 -	.]		1				
	(up to 20 mm), poorly sorted, and moist.		.						
		- 3 -	.						
		- 4 -	.						
ł			.						
	·	- 5 -		}	1	İ			
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown.		3	1.3'	Y	NA		SAIC03	
	Loose, slightly plastic, subangular to subrounded gravel	- 6 -		ĺ					
1	(up to 20 mm), poorly sorted, and moist.		ł			İ			
l		- 7 -							
			1						
ł		- 8 -	1						
			l				·		
		- 9 -							
		- 10 -							
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color:		4	1.1'	Y	NA		SAIC04	
	10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded	- 11 -	l						
	gravel (up to 20 mm), and slightly moist.	- -							
		- 12 -	<u> </u>						
-	Notes:		1					Notes:	
	1. Total depth of boring is approximately 12 feet BLS.	<u> </u> -	[.					NA - Not Applicable	
1	2. Borehole was abandoned using granular Ben-Seal bentonite.							NR - Not Recorded	
	3. Boring location was marked with 1-inch diameter PVC				,			BLS - below land surface	
	pipe with affixed brass tag. The boring identification was							OD - outside diameter	
-	stamped on the tag.							!	
	4. The drilling company was Dan's Field Service.								
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Site Name: DCD Boring No					-33B-	43		Monitoring Well No. NA			
		_			Not A		ole	Completion Depth: 12'			
		Probe	d De	pth:	12'			Rotary Depth: NA			
County/		Start			1/25/0	0		Finish Date: 1/25/00			
First En	countered Water: NA Static Water Level: N	NA	JA .					Grou	nd Cover: Shrubs,grasses&forbes		
_	Equipment:				S	ampl			Personnel		
Geoprob	be rig; 1.25-inch OD x 2-foot sampler with stainless steel liner			Sample No.	Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	1 :	G - Wayne Stoner D - Dan Plotts H - Brad Holdaway		
LISCS	DESCRIPTION		Depth n feet	samp	amp	ab A	V Va	Lithology	H - REMARKS		
	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown	- 11	1 leet	1	NA	Y	NA		SAIC01. Grab Sample.		
	Slightly dense, slightly plastic, and moist. Root structures.	<i>\\</i> -	- -	1	INA	-	NA		SAICUI. Glab Sample.		
	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown.	- -		2	1.3'	Y	NA		SAIC02 & 02ND. MS/MSD		
	Loose, slightly plastic, subangular to subrounded gravel	-	2 -	.] ~	1	*	" "		collected.		
	(up to 20 mm), poorly sorted, and moist.					ľ			Tonicale.		
	table and many, booking processed and morner	_	3 -								
			<u> </u>				_				
		-	4 -								
		-	_								
		-	5 -	L					<u> </u>		
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown.	— -	-	. 3	1.4'	Y	NA		SAIC03		
	Loose, slightly plastic, subangular to subrounded gravel	-	6 -								
]	(up to 20 mm), poorly sorted, and moist.	-	-								
		-	7 -	_		<u> </u>	<u> </u>				
,		-	-								
		-	8 -	1		•					
		-	-						ı		
		-	9 -								
] [-	-								
			10 -	+		ļ.,					
. ,	(10-12') Gravel, some medium to coarse sand, trace silt. Color:	-		4	1.3'	Y	NA		SAIC04		
	10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded	-	11 -	1							
	gravel (up to 20 mm), and slightly moist.	-		1							
	TN-44	 -	12 -	 					Notes:		
	Notes:	-	-	1							
	Total depth of boring is approximately 12 feet BLS. Borehole was abandoned using granular Ben-Seal bentonite.	-	-						NA - Not Applicable NR - Not Recorded		
	Boring location was marked with 1-inch diameter PVC		-						BLS - below land surface		
	pipe with affixed brass tag. The boring identification was		_]			l i	OD - outside diameter		
	stamped on the tag.		_						MS/MSD - matrix spike and		
	4. The drilling company was Dan's Field Service.		_						matrix spike duplicate sample.		
		-	_]					spine aspired bampie.		
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Site Na	Site Name: DCD Boring						Monitoring Well No. NA			
Project		urface El				ole	Completion Depth: 12'			
Fed ID	No. NA	robed De	pth:	12'			Rota	Rotary Depth: NA		
		tart Date:		1/25/0	0		Finish Date: 1/25/00			
	acountered Water: NA Static Water Level: NA	<u> </u>	1				Grou	nd Cover: Shrubs,grasses&forbes		
	Drilling Equipment:				ampl		·	Personnel		
Geopro	be rig; 1.25-inch OD x 2-foot sampler with stainless steel liners	Depth	Sample No.	Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	Lithology	G - Wayne Stoner D - Dan Plotts H - Brad Holdaway H -		
USCS	DESCRIPTION	in feet	Sam	Sam	Lab	> z	Lit	REMARKS		
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown		1	NA	Y	NA		SAIC01. Grab Sample.		
	Slightly dense, slightly plastic, and moist. Root structures.	1- 1 -	1					·		
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	- 2 - - 2 - - 3 -	2	1.0'	Y	NA		SAIC02		
		- 4 - - 5 -								
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	- 6 - - 7 -	3	1.25'	Y	NA		SAIC03&03ND. MS/MSD collected.		
		- 8 - - 9 - - 10 -								
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color: 10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded gravel (up to 20 mm), and slightly moist.	- 11 - - 12 -	4	1.5'	Y	NA		SAIC04		
	Notes: 1. Total depth of boring is approximately 12 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite. 3. Boring location was marked with 1-inch diameter PVC pipe with affixed brass tag. The boring identification was stamped on the tag. 4. The drilling company was Dan's Field Service.							Notes: NA- Not Applicable NR - Not Recorded BLS - below land surface OD - outside diameter MS/MSD - matrix spike and matrix spike duplicate sample.		



Site Name: DCD Boring No. SB-33B-45						45 Monitoring Well No. NA			
		urface Ele			_	ole	Completion Depth: 12'		
Fed ID	No. NA P	robed De	pth:	12'			Rotary Depth: NA		
County	/State: Tooele Co./Utah S	art Date:		1/25/0	0		Finish Date: 1/25/00		
First E	ncountered Water: NA Static Water Level: NA						Grou	nd Cover: Shrubs, grasses& forbes	
Drilling	Drilling Equipment:			S	ampl	es		Personnel	
Geopro	be rig; 1.25-inch OD x 2-foot sampler with stainless steel liners.	Depth	Sample No.	Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	Lithology	G - Wayne Stoner D - Dan Plotts H - Brad Holdaway H -	
USCS	DESCRIPTION	in feet	am	Sam	ap	>	損		
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown	In leet	1	NA	Y	NA		REMARKS SAIC01. Grab Sample.	
MIL	Slightly dense, slightly plastic, and moist. Root structures.	- 1 -	+-	INA	-	INA		SAICOL Glab Sample.	
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown.	 	2	1.0'	Y	NA		SAIC02	
OM.	Loose, slightly plastic, subangular to subrounded gravel	- 2 -	۱	1.0	1	IIIA		BAICOZ	
	(up to 20 mm), poorly sorted, and moist.				i				
	(up to 20 mm), poorly sorted, and moist.	_ 3 _							
		 		\vdash		 	000000000000000000000000000000000000000		
		- 4 -					ŀ		
1		-			1	1	1		
		- 5 -					!		
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown.		3	1.5'	Y	NA		SAIC03	
	Loose, slightly plastic, subangular to subrounded gravel	- 6 -							
	(up to 20 mm), poorly sorted, and moist.		1	1		ļ			
1		- 7 -							
		- 8 -							
1		- 9 -			1		ĺ		
					ŀ				
		- 10 -		<u> </u>					
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color:		4	1.1'	Y	NA		SAIC04	
	10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded	- 11 -	ļ	İ	ļ				
l	gravel (up to 20 mm), and slightly moist.								
		- 12 -		ļ					
	Notes:							Notes:	
}	1. Total depth of boring is approximately 12 feet BLS.							NA - Not Applicable	
1	2. Borehole was abandoned using granular Ben-Seal bentonite.		1	1	1			NR - Not Recorded	
	3. Boring location was marked with 1-inch diameter PVC				}			BLS - below land surface	
	pipe with affixed brass tag. The boring identification was	[OD - outside diameter	
	stamped on the tag.								
I	4. The drilling company was Dan's Field Service.	[
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}									
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Site Name: DCD Boring No. SB-							Mon	Monitoring Well No. NA		
		Surface El			ailal	ole	Completion Depth: 12'			
		robed De					Rotary Depth: NA			
		Start Date:		1/24/0	0		_	sh Date: 1/24/00		
	acountered Water: NA Static Water Level: NA	4					Grou	nd Cover: Shrubs,grasses&forbes		
•	g Equipment:		L		ampl			Personnel		
Geopro	be rig; 1.25-inch OD x 2-foot sampler with stainless steel liners	·	e No.	Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	ogy	G - Wayne StonerD - Dan PlottsH - Brad Holdaway		
USCS	DESCRIPTION	Depth in feet	1 5	Sampl	Lab A	N Val	Lithology	H - REMARKS		
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown		1	1.5	Y	NA		SAIC01		
1412	Slightly dense, slightly plastic, and moist. Root structures.	- 1 -	 	1	<u> </u>					
GM	(0.5-2') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel	- 2 -	2					SAIC02		
	(up to 20 mm), poorly sorted, and moist.	/ 				 				
 	(LP to 20 Hall), poorly correct, and motion	- 3 -								
		- 4 - - 5 -								
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	 - 6 - 7 -	3	2.0'	Y	NA		SAIC03		
		- 8 - - 9 - - 10 -								
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color: 10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded gravel (up to 20 mm), and slightly moist.	- 11 - - 12 -	4	1.5'	Y	NA		SAIC04		
	Notes: 1. Total depth of boring is approximately 12 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite. 3. Boring location was marked with 1-inch diameter PVC pipe with affixed brass tag. The boring identification was stamped on the tag. 4. The drilling company was Dan's Field Service.	- 12 -						Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface OD - outside diameter		



Site Ns	ime: DCD	Boring No	SB.	33B-	17		Mon	itoring Well No. NA	
_		Surface Ele				ole	Completion Depth: 12'		
-		Probed De					Rotary Depth: NA		
		Start Date:		/24/0	0		Finish Date: 1/24/00		
	ncountered Water: NA Static Water Level: N	ΙA						nd Cover: Shrubs,grasses&forbes	
	g Equipment:			S	ampl	es		Personnel	
Geopro	obe rig; 1.25-inch OD x 2-foot sampler with stainless steel liner		Sample No.	Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	logy	G - Wayne Stoner D - Dan Plotts H - Brad Holdaway	
USCS	DESCRIPTION	Depth in feet	Samp	Samp	Lab /	N Va	Lithology	H - REMARKS	
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown		i	NA	Y	NA		SAIC01. Grab Sample.	
<u> </u>	Slightly dense, slightly plastic, and moist. Root structures.	- 1 -	<u> </u>	<u> </u>	Ť	<u> </u>			
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	- 2 - - 2 - - 3 -	2	1.5'	Y	NA		SAIC02	
		 - 4 - 5 -			:				
GM 	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	- 6 - - 7 - - 8 -	3	1.0	Y	NA		SAIC03	
		 - 9 - - 10 -			**				
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color: 10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded gravel (up to 20 mm), and slightly moist.	- 11 - - 12 -	4	1.1'	Y	NA		SAIC04	
	Notes: 1. Total depth of boring is approximately 12 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite. 3. Boring location was marked with 1-inch diameter PVC pipe with affixed brass tag. The boring identification was stamped on the tag. 4. The drilling company was Dan's Field Service.							Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface OD - outside diameter	



Site Name: DCD Boring No.							Monitoring Well No. NA		
		urface El				ole	Completion Depth: 12'		
Fed ID	No. NA P	robed De	pth:	12'			Rotary Depth: NA		
County/State: Tooele Co./Utah Start D				1/24/0	0		Finish Date: 1/24/00		
First E	ncountered Water: NA Static Water Level: NA	\					Grou	nd Cover: Shrubs,grasses&forbes	
Drillin	g Equipment:		<u> </u>	S	ampl			Personnel	
Geopro	bbe rig; 1.25-inch OD x 2-foot sampler with stainless steel liners.		Sample No.	Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	Lithology	G - Wayne Stoner D - Dan Plotts H - Brad Holdaway	
LISCS	DESCRIPTION	Depth in feet	Sam	Sam	ab,	2	ith.	H - REMARKS	
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown	III ICCI	1	NA	Y	NA		SAIC01. Grab Sample.	
IVIL	Slightly dense, slightly plastic, and moist. Root structures.	- 1 -	 -	IVA		INA		SAICOT, Grao Sample.	
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown.		2	1.2'	Y	NA		SAIC02	
GIVI	Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	- 2 -			•			5.110v2	
		- 4 - - 5 -							
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	 - 6 - - 7 -	3	1.4'	Y	NA		SAIC03	
		- 8 - - 9 - - 10 -							
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color:		4	1.25'	Y	NA		SAIC04	
	10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded gravel (up to 20 mm), and slightly moist.	- 11 -							
	Notes: 1. Total depth of boring is approximately 12 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite. 3. Boring location was marked with 1-inch diameter PVC pipe with affixed brass tag. The boring identification was stamped on the tag. 4. The drilling company was Dan's Field Service.							Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface OD - outside diameter	



Site No	me: DCD	Boring	No.	SR-	33R	49		Mon	itoring Well No. NA	
					ot Av		ole	Completion Depth: 12'		
	No. NA	Probed		-				Rotary Depth: NA		
County	Start Date: 1/24/00						Finish Date: 1/24/00			
	ncountered Water: NA Static Water Level: N	L						_	nd Cover: Shrubs,grasses&forbes	
Drilling	g Equipment:				S	ampl	es	•	Personnel	
	be rig; 1.25-inch OD x 2-foot sampler with stainless steel liner	rs.	oth .	Sample No.	Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	Lithology	G - Wayne Stoner D - Dan Plotts H - Brad Holdaway H -	
USCS	DESCRIPTION	in f	eet	San	San	Lab	<u>></u>	l ġ	REMARKS	
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown	-	-	1	NA	Y	NA		SAIC01, Grab Sample.	
	Slightly dense, slightly plastic, and moist. Root structures.	- 1	-1							
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown.	<u> </u>	-	2	1.3'	Y	NA		SAIC02	
ľ	Loose, slightly plastic, subangular to subrounded gravel	- 2	-							
	(up to 20 mm), poorly sorted, and moist.	-	-1							
		- 3	-							
		- - 4	-							
		- 5				İ				
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown.	- -	+	3	1.5'	Y	NA		SAIC03	
	Loose, slightly plastic, subangular to subrounded gravel	- 6	_	_		•	'			
	(up to 20 mm), poorly sorted, and moist.	_	_							
1		- 7	_							
		 -								
		- 8	-							
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		- 9	-							
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		- 10					لـــــا			
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color:	-	-	4	1.5'	Y	NA		SAIC04	
	10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded	- 11	-			i				
	gravel (up to 20 mm), and slightly moist.	-	-							
L		- 12	-							
	Notes:	-	-		- 1				Notes:	
	Total depth of boring is approximately 12 feet BLS.	-	-	ļ					NA - Not Applicable	
	2. Borehole was abandoned using granular Ben-Seal bentonite.	-	-	ľ	l				NR - Not Recorded	
	3. Boring location was marked with 1-inch diameter PVC	-	-]				BLS - below land surface	
	pipe with affixed brass tag. The boring identification was	-	-		- 1				OD - outside diameter	
	stamped on the tag.	-	-							
	4. The drilling company was Dan's Field Service.	-	-							
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Site N	ame: DCD	. SB	-33B-	50		Monitoring Well No. NA				
Projec		Surface E			vailat	ole	Completion Depth: 12'			
		Probed De		12' 1/24/0			Rotary Depth: NA			
County/State: Tooele Co./Utah Start Date:							Finish Date: 1/24/00			
	Incountered Water: NA Static Water Level: N	<u> </u>					Grou	Ground Cover: Shrubs,grasses&forbes		
	g Equipment:				ampl		r	Personnel		
Geopre	obe rig; 1.25-inch OD x 2-foot sampler with stainless steel liners	Depth	Sample No.	Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	Lithology	G - Wayne Stoner D - Dan Plotts H - Brad Holdaway H -		
USCS	DESCRIPTION	in feet	Sam	Sam	Lab	> Z	Ë	REMARKS		
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown	-	1	NA	Y	NA		SAIC01. Grab Sample.		
	Slightly dense, slightly plastic, and moist. Root structures.	 1 .					,			
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	- 2 - - 2 - - 3 -	2	1.0'	Y	NA		SAIC02		
		- 4 - - 5 -								
GM 	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	- 6 - - 7 -	3	1.4'	Y	NA		SAIC03		
		- 8 - - 9 - - 10 -								
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color: 10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded gravel (up to 20 mm), and slightly moist.	- 11 - - 12 -	4	1.5'	Y	NA		SAIC04		
	Notes: 1. Total depth of boring is approximately 12 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite. 3. Boring location was marked with 1-inch diameter PVC pipe with affixed brass tag. The boring identification was stamped on the tag. 4. The drilling company was Dan's Field Service.							Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface OD - outside diameter		



Site Name: DCD Boring No.							Monitoring Well No. NA		
		Surface E				ole	Completion Depth: 12'		
Fed ID	Probed D	epth:	12'			Rotary Depth: NA			
County/State: Tooele Co./Utah Start Da					0		Finish Date: 1/24/00		
	ncountered Water: NA Static Water Level: N	Α					Grou	nd Cover: Shrubs,grasses&forbes	
	g Equipment:		\perp	<u>S</u>	ampl			Personnel	
Geopro	bbe rig; 1.25-inch OD x 2-foot sampler with stainless steel liners		Sample No.	Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	Lithology	G - Wayne Stoner D - Dan Plotts H - Brad Holdaway	
USCS	DESCRIPTION	Depth in fee	Sam	Sam	æ	2	Į į	H - REMARKS	
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown	in iee	- 1	NA	Y	NA		SAIC01&01D. Grab Sample.	
IVIL	Slightly dense, slightly plastic, and moist. Root structures.	- 1] 	IVA	1	110		Duplicate collected.	
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown.	-	- 2	1.5'	Y	NA		SAIC02	
GWI	Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	- 2 - - 3	-		•			JAICU2	
		- - 4 - - 5	- - -						
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	- - 6 - - 7	3	1.2'	Y	NA		SAIC03	
		- 8 - 9 - 10							
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color: 10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded gravel (up to 20 mm), and slightly moist.	- - 11 - - 12	4	2.0'	Y	NA		SAIC04&04D. Duplicate collected.	
	Notes: 1. Total depth of boring is approximately 12 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite. 3. Boring location was marked with 1-inch diameter PVC pipe with affixed brass tag. The boring identification was stamped on the tag. 4. The drilling company was Dan's Field Service.							Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface OD - outside diameter	



Site M	ame: DCD	R-	ring N	Jo	CD	23D	-52	-	Mor	itoring Well No. NA	
						Not A		able	Completion Depth: 12'		
						10'	17411		Rotary Depth: NA		
County/State: Tooele Co./Utah						/24/0	Ю.		Finish Date: 1/24/00		
	Encountered Water: NA Static Water Lo		rt Da			72.70				and Cover: Shrubs, grasses&forbes	
	g Equipment:			T		S	ampl	es	0.00	Personnel	
,	obe rig; 1.25-inch OD x 2-foot sampler with stainless steel	ine	rs.	F			T.			G - Wayne Stoner	
-						ove	S Y	<u>[</u>		D - Dan Plotts	
					ġ	Sec.	lys:	(E)	_	ļ	
	T		<u> </u>	Ӈ,	mple No.	le I	Yna	Valves (Blows)	log	H - Brad Holdaway	
			Dept	n	du	Sample Recovery	Lab Analysis Y/	\$	Lithology	H -	
	DESCRIPTION		in fe	et t	Š			Z		REMARKS	
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown	,	<u> -</u>	4	1	NA	Y	NA		SAIC01&01ND, Grab Sample.	
	Slightly dense, slightly plastic, and moist. Root structures.	_	- 1	4						MS/MSD collected.	
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown.		-	1	2	1.5	Y	NA		SAIC02	
l	Loose, slightly plastic, subangular to subrounded gravel		- 2	1							
	(up to 20 mm), poorly sorted, and moist.		-	1							
			- 3	7							
			· .	1				ļ			
			- 4	1				<u> </u>			
			- 5								
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown.		- 3	+	3	1.5'	V	NA		SAIC03	
CIMI	Loose, slightly plastic, subangular to subrounded gravel		- 6		ا آ	1.5	•			BAICOS	
	(up to 20 mm), poorly sorted, and moist.		_	_	j						
	(up to 20 min), poorly sorted, and moist.		- 7	_				İ			
			<u>-</u> -	+	\dashv			 	200200000		
			- 8	_							
			_	-							
			- 9	-	Ì						
			-	-							
			- 10	-	- [- 1					
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color:		-	7	4	1.5'	Y	ÑΑ		SAIC04.	
	10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded		- 11	-		ı					
	gravel (up to 20 mm), and slightly moist.		-	-	l	1					
			- 12	1							
	Notes:		-	-[1					Notes:	
	1. Total depth of boring is approximately 12 feet BLS.		-	-	1	}				NA - Not Applicable	
	2. Borehole was abandoned using granular Ben-Seal bentonite.		-	-					l i	NR - Not Recorded	
	3. Boring location was marked with 1-inch diameter PVC		-	-	I	ļ				BLS - below land surface	
	pipe with affixed brass tag. The boring identification was		-	-						OD - outside diameter	
	stamped on the tag.		-	-		l				MS/MSD - matrix spike and	
	4. The drilling company was Dan's Field Service.		-	-	-	ŀ				matrix spike duplicate.	
			-	1					l		
		}	-	-		l					
			-	1	- 1	}					
j			-	1					ļ		
		ľ	-	-	- [- 1			J		
1			-	1							



Site Name: DCD Boring No. SB-33B-53						Monitoring Well No. NA					
	No. 03-6523-044		Surface Elev. Not Available						Completion Depth: 12'		
	No. NA	Pro	bed De	pth:	12'			Rotary Depth: NA			
County/State: Tooele Co./Utah			rt Date:	1	1/24/0	0		Finish Date: 1/24/00			
First E	ncountered Water: NA Static Water Level:	NA						Grou	nd Cover: Shrubs,grasses&forbes		
Drillin	g Equipment:				S	ampl	es		Personnel		
Geopro	bbe rig; 1.25-inch OD x 2-foot sampler with stainless steel line	ers.	Depth	Sample No.	Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	ogy	G - Wayne Stoner D - Dan Plotts H - Brad Holdaway H -		
uscs	DESCRIPTION		in feet	Sam	Sam	Lab	> z		REMARKS		
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown			1	NA	Y	NA		SAIC01&01D. Grab Sample.		
""	Slightly dense, slightly plastic, and moist. Root structures.	A	- 1 -	 	1771	┢	1111		Duplicate collected.		
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- 2 - - 3 -	2	1.2'	Y	NA		SAIC02		
			- 4 - - 5 -								
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- 6 - - 7 -	3	1.4'	Y	NA		SAIC03		
			- 8 - - 9 - - 10 -								
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color: 10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded gravel (up to 20 mm), and slightly moist.		- 11 - - 12 -	4	1.5'	Y	NA		SAIC04.		
	Notes: 1. Total depth of boring is approximately 12 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite. 3. Boring location was marked with 1-inch diameter PVC pipe with affixed brass tag. The boring identification was stamped on the tag. 4. The drilling company was Dan's Field Service.								Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface OD - outside diameter		



Site Name: DCD Boring No. SB-33B-54								Monitoring Well No. NA			
	No. 03-6523-044	+				lot Av	ailal	ole	Completion Depth: 12'		
	No. NA	1	obed l	_					Rotary Depth: NA		
County/State: Tooele Co./Utah Start Date: 1/24/00								sh Date: 1/24/00			
	ncountered Water: NA Static Water Level:	NA_							Grou	nd Cover: Shrubs,grasses&forbes	
	g Equipment:						ampl			Personnel	
Geopro	bbe rig; 1.25-inch OD x 2-foot sampler with stainless steel line.	rs.	Don	-1-	Sample No.	Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	Lithology	G - Wayne Stoner D - Dan Plotts H - Brad Holdaway H -	
USCS	DESCRIPTION		Dep in fe	- 1	Sam	Sam	Lab.	N Z	Lith	REMARKS	
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown		-	-	1	NA	Y	NA		SAIC01. Grab Sample.	
	Slightly dense, slightly plastic, and moist. Root structures.	/	- 1	-							
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- - 2 - - 3	-	2	2.0'	Y	NA		SAIC02 & 02ND, MS/MSD collected.	
			- - 4 - - 5	-							
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.		- - 6 - - 7	-	3	1.2'	Y	NA		SAIC03	
			- 8 - 9 - 10	-							
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color: 10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded gravel (up to 20 mm), and slightly moist.		- - 11 -	-	4	1.5'	Y	NA		SAIC04.	
	Notes: 1. Total depth of boring is approximately 12 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite. 3. Boring location was marked with 1-inch diameter PVC pipe with affixed brass tag. The boring identification was stamped on the tag. 4. The drilling company was Dan's Field Service.		- 12 - - - - - - - -							Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface OD - outside diameter MS/MSD - matrix spike and matrix spike duplicate sample.	



Site Na	o. SB	-33B-	55		Monitoring Well No. NA				
	No. 03-6523-044	Surface E				ole	Completion Depth: 12'		
	No. NA	Probed De					Rotary Depth: NA		
		Start Date		1/25/0	0		sh Date: 1/25/00		
First E	ncountered Water: NA Static Water Level: N	IA					Grou	nd Cover: Shrubs,grasses&forbes	
Drillin	g Equipment:			S	ampl	es		Personnel	
Geopro	bbe rig; 1.25-inch OD x 2-foot sampler with stainless steel liner	·	Sample No.	Sample Recovery	Lab Analysis Y/N	N Valves (Blows)	Lithology	G - Wayne Stoner D - Dan Plotts H - Brad Holdaway H -	
USCS	DESCRIPTION	Depth in feet	şamı	am	ab.	ا ا	Į į	REMARKS	
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown	In lee	1	NA	Y	NA	***********	SAIC01&01ND. Grab Sample.	
MIL	Slightly dense, slightly plastic, and moist. Root structures.	/ - 1] 	1117	1	1112		MS/MSD collected.	
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	- 2 - 3	- 2	1.3'	Y	NA		SAIC02	
		- 4 · - 4 · - ·	-						
GM	(5-7') Sandy silt with some gravel. Color: 10YR 5/3 brown. Loose, slightly plastic, subangular to subrounded gravel (up to 20 mm), poorly sorted, and moist.	- 6 - - 7 -	3	1.5'	Y	NA		SAIC03 & 03D. Duplicate collected.	
		- 8 · - 9 · - 10 ·							
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color: 10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded gravel (up to 20 mm), and slightly moist.	- 11 12 -	4	1.3'	Y	NA		SAIC04	
	Notes: 1. Total depth of boring is approximately 12 feet BLS. 2. Borehole was abandoned using granular Ben-Seal bentonite. 3. Boring location was marked with 1-inch diameter PVC pipe with affixed brass tag. The boring identification was stamped on the tag. 4. The drilling company was Dan's Field Service.							Notes: NA - Not Applicable NR - Not Recorded BLS - below land surface OD - outside diameter MS/MSD - matrix spike and matrix spike duplicate sample.	



Site Na	me: DCD	oring l	No.	SB-	33B-	56		Mon	itoring Well No. NA	
Ргојест		urface					le		pletion Depth: 12'	
Fed ID	No. NA	robed I	Dept					Rota	ry Depth: NA	
		tart Da	te:	1	/25/0	0		Finish Date: 1/25/00		
	ncountered Water: NA Static Water Level: NA	4						Grou	nd Cover: Shrubs,grasses&forbes	
	g Equipment:		-			ampl			Personnel	
Geopro	be rig; 1.25-inch OD x 2-foot sampler with stainless steel liners.				Sample Recovery	Lab Analysis Y/N	N Valves (Blows)		G - Wayne Stoner	
				o.	.ooa	/sis	ĕ	l	D - Dan Plotts	
			_	Sample No.	c R	naty	s ,	Lithology	H - Brad Holdaway	
l		Dep	th	ldu	ldu	b A	Val	P	Н -	
USCS	DESCRIPTION	in fe	et	Saı	Saı	La	z	17	REMARKS	
ML	(0 to 0.5') Silt, some sand. Color: 10YR 4/2 dark grayish brown	<u> </u>	-	1	NA	Y	NA		SAIC01&01D. Grab Sample.	
	Slightly dense, slightly plastic, and moist. Root structures.	- 1	-						Duplicate collected.	
GM	(1-3') Sandy silt with some gravel. Color: 10YR 5/3 brown.	-	-	2	1.0'	Y	NA		SAIC02	
ł	Loose, slightly plastic, subangular to subrounded gravel	- 2	-							
	(up to 20 mm), poorly sorted, and moist.	- _	-							
		- 3	-							
		-	-							
		- 4	1							
		- 5		ŀ						
GM	(5-7) Sandy silt with some gravel. Color: 10YR 5/3 brown.	1		3	1.3'	Y	NA		SAIC03	
JOIN	Loose, slightly plastic, subangular to subrounded gravel	- 6		١	1.5	-	1111		5711003	
	(up to 20 mm), poorly sorted, and moist.	-	_							
	(-F 10 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 7	-							
<u> </u>		-	寸	\neg						
		- 8	-	1						
		-	-							
		- 9	-		ĺ		·			
		-	-							
		- 10	-							
GW	(10-12') Gravel, some medium to coarse sand, trace silt. Color:	-	-	4	1.3'	Y	NA		SAIC04	
	10YR 5/4 yellowish brown. Loose, poorly sorted, subrounded	- 11	-	ı					·	
	gravel (up to 20 mm), and slightly moist.	1	1		Ì				1	
	Noton	- 12	+	\dashv			-		Notes:	
	Notes: 1. Total depth of boring is approximately 12 feet BLS.		_[- 1		ļ		NA - Not Applicable	
	2. Borehole was abandoned using granular Ben-Seal bentonite.	[J		ļ	}		NR - Not Recorded	
	3. Boring location was marked with 1-inch diameter PVC	_	_		- [- 1	BLS - below land surface	
i 1	pipe with affixed brass tag. The boring identification was	_	_		- 1				OD - outside diameter	
	stamped on the tag.	-	-		ļ			ļ	1	
	4. The drilling company was Dan's Field Service.	-	-						i	
		-	-			ł		1		
		-	-						i	
		-	-				}		1	
		-	-		1		ĺ		İ	
		-	-					ĺ		
		<u> </u> -	-							

TEST PIT LOGS

Boring Location Project: TENET F ARMY DEPOT - SOUTH AREA SWMU NO: SWMU 33, BUILDING 336 (TRONCH) Start date and time: 10/7/94 0830 Completion data and time; 10/7/74 6915 Drilling Contractor: Drilling Method: BACK HOE ÚΧZ Logged by: J. PENDLETON Diameter (inches): BACKHOE TRESICH Total depth (feet): 10 315 Bros Sampler type and size (diameter and length): 5.5. 570015 & GLASS CONTAINERS (350 and Duch Samples collected from boring: TEST PIT (TP-33-00/ 4, 00/B, 00/C, 00/0 Head-Max. PID Lithologic Description Secondary Compounds Depth space. Reading Blows Sample Sample (USCS name; color; consistency plasticity; density; and Percentages Reading (6 inches) Type Recovery moisture content; angularity, additional facts) (feet) (ppm) 1 RROWN 10 4R 5/3 SILTY CLAY (TOP SOIL) 50% CL44 0 BORE MOIST, FIRM, MOD DEUSITY LOW PLASTICITY LARGE 40 GREAVIL 40% SILT TP-33-0014 10% GRAVEL MATERIAL 0.5'325 SCRAD METAL, WOOD, CONSTRUCTION 1-RAIN GUTTERS AND SHOWGLES NOTE: DEBRIS REGINS AT N/ BLS AND CONTINUES CHITIC TO 9' BAS. TRACE 70/26/845 OF NEBRIS 2-CL BROWN 16 412 5/3 SIETY CLAY 50% CLAY 4/4 ZORF 0 DRY, MOD. CONSISTENCY, LOW DESIST 40% SICT TP-33-00B LOW PLASTICITY 10% GRAVEZ 3.0'845

JOI IN E LO	ecation	Project:	DELE A	RMY DET	FOT SOUTH-AREA	SWMU No: SWMU-33 TREVICH OO!					
		Start date and		17/94		Completion data and time: 10/7/94 0915					
++	-+-+-	Drilling Con	tractor: (X Z		Drilling Method: BACKHOE					
Ì C	D.	Logged by:	J.P	ENDLE?	04/						
	Bibb	Total depth ((feet):	01 BLS		Diameter (inches):					
		Sampler type	Sampler type and size (diameter and length): STAINLES STEEL STOOMS WITH BLASS ZEO MI CONT. Samples collected from boring: TEST PIT (TP-33 001A, 001B, 001C, 001D)								
	14	Samples coll									
Depth (feet)	Head- Max. PII space Reading Reading (ppm)		Sample Type	Sample Recovery	Secondary Compounds and Percentages	Lithologic Description (USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)					
5 &	-7P-33-00/C	NA	BORE	NA	50% CLAY	PHOD, DAISITY, LOW PLASTICITY					
					40% SIET	MOD, DENSITY, LOW PLASTICITY					
					10% GRAVEZ	·					
						1					
6 1=											
						·					
7 1=	_										
8 =			<u> </u>	ļ							
	·	_ <u>·</u>	ļ	ļ							
			<u> </u>	<u> </u>							
	·		<u> </u>	ļ							
سعر 9			 	 							
	<u></u>	- 	 	 	50% CLAY						
	<u> </u>		 	 	40% SILT	CL BROWN BYR S/3 SILTY CLAY, TIRM,					
40	TP-33-00/2	NA	ROZE	NA	10% GRAVER	MOD. DEUSITY, LOW PLASTICITY.					

)

Boring Location	Project:	PAD-	Sourt	4	SWMU No: SWMU-33, FREEU GOZ				
Mot or	Start date and	time: 10	17/94	0945	Completion data and time: 10/2/44				
	Drilling Cont	tractor:	1xB		Drilling Method: BACK HOE				
BROWD SURFACE . 14	Logged by:	J.Pe	NDLE 7	ro «/					
-	Total depth (o'		Diameter (inches): N/A WETH GLASS CONTAINETS				
FRANT DEC	Sampler type	and size (di	ameter and I	ength): SPOOKS					
VIEW 6	Samples colle	ected from b	oring: 7	P-002A, 002	4300 2500 A				
Head- Max. Depth space Read (feet), Reading (ppi	PID ing Blows	Sample Type	Sample Recovery	. Secondary Compounds and Percentages	Lithologic Description (USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)				
0"0 0	V/4	BoRE	NA	5090cm	YELDOWSH BROWN INTR 5/4 39-07 CLAY				
0921				40% 344D	Der Impleaser of Surp				
				10 % COME	LOW CONDITICITY COW POLITY				
Derest B	etals 70	MADE	Below	LAND	WELL SEETED , APEDIUM SEAMED.				
	LE GE TR				(DEBRIS FROM FIRST 0.5 BELOW DITCH				
					SORFACE (6.5' 865), BELOW OUT BELOWES				
SAMPL	11CH # 2 ACTUALLY 6' BGS = 0			VERGIA Soil					
2—				40% CLAY	AT 1.5' BEZOW DITCH SURFACE BELLES				
				56% SMD	TO BECOME MORE SANDY				
					DET, four ses JP LOW CONTINUET, SAND MOD.				
				56	1				
3 TP-00Z	3 4/4	BURE	NA		GRAINER WELL SORTED, SUBRAMOED,				
0781	•				CUT UN PRATILITY, CON DONETY.				
					, -				
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4		ļ							
		<u> </u>							

Boring Location		Project: 70	SECE A	remy D	POT-SOUTH AREA	SWMU No: 33 TREALCH NO. 2
7 780 2	Į.	Start date and	time: 10	17/94		Completion data and time; 10/1/94
(1,200		Drilling Conti		X75		Drilling Method: BACKHOE
		Logged by:	J. Pe	VOLETO	N	
Bu	6	Total depth (f		BUS		Diameter (inches): BACKHOT, BUCKET 24"
53		Sampler type	and size (di	ameter and le	ength): SCAINCESS	STEEL SPOONS
`		Samples colle			_	6500, 2500, 2500, A500-9T
Head- M	lax. PID				•	Lithologic Description
	Reading (ppm)	Blows (6 inches)	Sample Type	Sample Recovery	Secondary Compounds and Percentages	(USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)
5 -00- "						
0-40	0	NA	BOTTE	NA	70% SAVD	SAUD, SAND MED- COARSE GRAINED
-TP-33-00					25% CLAY	SAND, SAND MED- COARSE GRAINED
8590		•			5% GRAVER	SUBROUNDED, POORLY SORTED, DEY, LOOSE CLAY, LOW DEUSITY & PLASTICITY
						LOOSE COLY, LOW DEUSITY & PLASTICITY
7 24-						
			· ·			
						SAME AS DESCRIBED ABOVE
8 2-						The state of the s
					· · · · · · · · · · · · · · · · · · ·	
		····				
				<u> </u>		
9 2 -						SC
0	0	NA	BORE	NA	80% SWD	1" —
TP-33	-002N	1-	B 0.00	7	10% CLAY	SAND WITH SOME GRAVEL, SAND MED-COMES
10 0950					10% GRAVEL	GRALLED SUBROULIDED, POORLY SORTED
2,30			l		10/0 OKAVEL	CLAY LOOSE, DITY, LOW PLANTICITY GRAVEL
•						SUBROUDED, 3-7 CM IN SIZE.
						SUDICUCATE DI O FORTI I E ECC

Boring L	ocation		Project: 7	PAD-	South	£	_	SWMU No: SWMU-33 7P-33-003		
-P-3	33-003		Start date and	time: 10	7-74	1000		Completion data and time; 16-7-94 1030		
• •			Drilling Cont	ractor: U	xR			Drilling Method: BACKHOE		
		\ .	Logged by:	J. De	VINET	ow/		STELLING C		
		.)	Total depth (f	icet): /O	'A Done	H CAL	DHE	Diameter (inches): 2 BACKHOE BUCKET		
	1	3r06 / 1	Sampler type	and size (di	ameter and l	ength); S.	S SPAN	is semente thes		
	L	536 / 17	Samples colle	cted from b	oring: 77	-33-	103A A	38, 03c, 003D		
	Head-	Max. PID				83-6	JUSH, CL			
Depth	space	Reading	Bļows	Sample	Sample	Secondary	Compounds	Lithologic Description		
(feet),	Reading	(ppm)	(6 inches)	Туре	Recovery		•	(USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)		
0	<u>- ŏ</u>	0	MA	BARE	NA	SAND		HELLOWING BROWN 10 YR 5/4 CLOYER SALD		
	77-3	1-003A					20%	WITH SOME GRAVEZ, SAND DRY, AVED - COARS		
ļ	0.5	1016				SAME		CRAMED, SUBBOUNDED		
1-	_									
					·					
										
2	_									
										
										
								SP		
3	-0	0				SAND	50%	HELDWIGH BROWN 10 PR 3/4 GRAVERY SAND		
	77-33-	0038	WA	Bone	~/0	GRACE		WITH SOME CLAT, SAND AND-COARSE GRANN,		
		s. Dereut a	UR FIRE				20%	SUB ROUNDED.		
	1015									
4										
								·		
										
							·			
ليسسم							ونصاحب			

_	ocation		Project:	<u>≥40 - 5</u>	OUTH		SWMU No: SWMU-33 TEENCH TP-003.		
- τ₽-3	₹3 <i>~∞</i> 3		Start date and	time: 10	-7-94	/000	Completion data and time; 10-7-94 10 45		
			Drilling Cont	ractor:	OXB		Drilling Method: BACLAGE		
		\supset	Logged by:						
	۲	BLDG	Total depth (feet): 10	BRO	N Diren SURFACE	Diameter (inches): 24" BUCKET		
	1	536	Sampler type	and size (d	iameter and I	ength): 24" Buck	ET		
		N	Samples colle	cted from I	_		083,003C 003D		
	Head-	Max. PID					Lithologic Description		
Depth (feet)	space Reading	Reading (ppm)	Blows (6 inches)	Sample Type	Sample Recovery	Secondary Compounds and Percentages	(USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)		
5 -6=-									
							1		
	٥	0					\space \tag{\sqrt{\sq}\sqrt{\sq}}\sqrt{\sq}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}		
6 +		-003C	MA	THE	MA	SAND GOYO	YELLOW ISM BLOOM INER 5/4 GROBLY SOND		
	1021		7		7	GRME C 30%	SAND DAY MED. COARSE GRANGED WELL PORTED		
						cur 10%	WELL SARTED		
						·			
7 2	_								
							GRAVEL CONSTITUTET BECOMES MUCH		
							GREATER AT DEPTH OF 16'863		
							(AUDUM DEPOSITIONAL STONES, SUBLEWASED		
8 }							S AMELY SHETED)		
			<u> </u>						
	} 								
-, -, -, -, -, - , -, -, -, -, -, -, -, -, -, -, -, -, -,	<u> </u>						GP .		
a K		<u> </u>	<u> </u>				YOUGHER BORN TO YR 3/4 SANDY GRAUET		
9 K		0	<u> </u>			40 % GOWEL	GRAFE SUBROMOFD UP & 6-7 M IN ON! WE PARKLY SUBPLIED SAND COARSE SUBPLIED		
9 K	0		1		 	430% SMD	POWERT SORTED (ACLOUNT DEPORTMENT		
9 K	N 30		NA	80€€	 				

Boring L	ocation		EAD -		Н	SWMU No: SWMU-35 TP-33-004					
-1 ₽~′	33-004	Start date and	d time: 10	-7-94		Completion data and time; 10/7/84					
,	-		tractor: Ux			Drilling Method: BACKHOE					
	<u> </u>	Logged by:	3. P	EN DUE?	704						
	Bus6	Total depth (* B65		Diameter (inches): 24 BUCKET ON BACKHOE					
	536	Sampler type	and size (dia	meter and I	ength): Kackstof	RIKET I WAS CC DIEEURC					
	· · · · · · · · · · · · · · · · · · ·	Samples coll	Samples collected from boring: TP-33-004A, CO4B, CO4C, OO4D								
Depth (feet),	Head- Max, P space Readin Reading (ppm)	D Blows	Sample Type	Sample Recovery	Secondary Compounds and Percentages	Lithologic Description					
0-	- ö O	MA		NA	50% 544D	GANGER BROWN 1048 5/3 CHART SALD					
,	-P-33-004/		Sax	<u>~{~</u>	35% cur	SAND MED COASE GRANGE SUBSOMDED PORCY SUPPER CUY LOW DEVELTY DET					
	0.5' B&S				1576 GRAVE	Low Codswertey					
	(ME/MED CA	CLETED A	0.5	265		7					
1-	_										
					·	NO DEBRUS AT ALL BELOW					
		·				DITCH SURFACE					
2-			1			SOIL HAS BECOME MORE CONSISTANT					
			+			 {					
			 			WITH LESS MATERIALS BURIED,					
						-					
3-			 								
_			 			sc					
	3.75' 36.5	NA	2-05	/2	SAND 50%	GENTISH BROWN 10TE 5/2 CUTET					
	0 0	- 1 24 PF	BOTE !	MA		SAND WITH SOME GRAVE					
4		<u> </u>	 		CLAY 30 %						
	17 33- 304		 		6242 20%0	-					
4											
•			 								
•						-					

	ocation	Project: 7				SWAU No: 30A UMWZ			
77-	-33-004	Start date and	time: 10	7-74		Completion data and time: 10-7-24			
		Drilling Cont		XB		Drilling Method: Bock HOE			
		Logged by:		EVOLET	row	rate ing			
	[3:30]	Total depth (f		265		Diameter (inches): 24 Back 40E			
	230 BIDe	Sampler type			ength): BACKHOE				
	7,1					4.0048 004C, 004D/=			
	Head- Max, PID				17 23 -071				
Depth	space Reading	Blows	Sample	Sample	Secondary Compounds	Lithologic Description			
(feet)	Reading (ppm)	(6 inches)	Туре	Recovery	and Percentages	(USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)			
5 8-				<u>`</u>	SP	TELLOWSH BROWN 10 YR 5/4 GRAVELY			
						SAND WITH TRACE CLAY, SAND			
,		 				MED- COMESE SEAMER, PERKET SERTED			
				 -		SUB RANKOET DRY, GRAVER 5-6 14.14			
		1			2 25 18	SUBROUNDED, DRY, GRAVER 5-6 14.14 STENSOR BLOWN OFRS/4			
-1-	-77-33-004C	NA	BASE	NA	SMD 60 toto	LANDER CARET			
:	6.1'BCS	 	ļ		6000 3570	SANDY GRAGE (SEE ABOUE)			
-		1 '		1	(65%)				
•		 	 						
	AT ~ 6' B				VENT BEROWES				
7 2=	 								
7 2=	 				VELLY BECOMES				
7 20	 				VELLY BECOMES				
7 20	 				VELLY BECOMES				
	- DOMMART				VELLY BECOMES				
•	- DOMMART				VELLY BECOMES				
	- DOMMART				VELLY BECOMES				
•	- DOMMART				VELLY BECOMES	c4.			
g .3-	- Down Azer				VENT BERAMET S-GIN IN 2	ra. GP			
g -3-	- Done M Azer	GAMA	<i>い</i> か	70 4	GRAVEL 60%	GP YELLUSH BROWN 10 YR 5/4			
8 -2-	- Down Azer				GRAVEL 60% SAND 2540	GP YELLUISH BROWN 10 YR 5/4 SHOY GRAVEZ, WITH TIZACE CLAY			
7 4	- Done M Azer	GAMA	<i>い</i> か	70 4	GRAVEL 60%	GP YELLUSH BROWN 10 YR 5/4			

Boring Location	Project: '7	-GHS	Sour	H	SWMU No: SWMU-33, TEST AT 005				
TP-33-005	Start date and				Completion data and time; 10-7-94				
	Drilling Contr	ractor: U	XB		Drilling Method: BACKHOE				
	Logged by:	J. P	PYDLE	TON					
3456	Total depth (fe				Diameter (inches): 24 BACKHOF BUCKET				
536	Sampler type	and size (di	ameter and le	ength): BACKHOE	BICKET WITH S.S. SAMUE				
74	Samples collec	cted from be	oring: 77	D- 33-005A	0028,0026,0020				
Head- Max. PID Depth space Reading (feet), Reading (ppm)	Blows (6 inches)	Sample Type	Sample Recovery	Secondary Compounds and Percentages	Lithologic Description (USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)				
000	NA	BORE	u/p	50 % SALD	YEROSAH BERNU 10 YR 5/4 CLYPTY SIND				
-P-33-005A				30% CLAY	PLOS STATULE CLAY, DRY, STIFF, MOD. DEVSIT				
1148 (MS/MC	D Cours	100	pt 0.5	\$ 20% same	LOW PLASTICITY. GRAVEL ~ 3-4 IN. IN DIA.				
	es 500	_ 1			SUB ANGULAR,				
1									
					1				
	·								
2—					_				
0 0					16P				
37P-33-045B	NA	Boxe	NA	60% SMD	VERLOWEN BROWN WYR 5/4 GRANT SAUD				
1158				20% GRACE	COARSE, SORBHURDED BRALT SAFTED				
		ł		10% clay	GRAVEL 2-514 N DIA. SUBMUNDED				
•]				
4									
					· ,				
		<u> </u>							

Joring L	ocation	Project: 7	- CM	SOUTH		SWMU No: SWMU-33 7887 PT 005
		Start date and	time: 45	-7-94	1840	Completion data and the
	TP-33-005	Drilling Cont				Drilling Method: BACK 40E
				PVDLE7	04/	<u> </u>
		Total depth (f	(cet):	o' Bez	W Derest Supe	Diameter (inches): 24° Back HOE BUCKET
	BLDG /	Sampler type	and size (d	iameter and I	ength): Receiver	WITH S.S. SPOONS
	NH 536	Samples colle	cted from t	oring: -2	2-33-0051 0	858, 005C, 005D
	Head- Max, PID				25 550 4. 0.	
Depth	space Reading	Blows	Sample	Sample	Secondary Compounds	Lithologic Description
(feet),	Reading (ppm)	(6 inches)	Туре	Recovery	and Percentages	(USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)
5 K-						
			. `			1
	<u> </u>					
	0 0.	 				6P
6 X-		4/4	Bat	NA	70% 5MD	YELLOWER BROWN BYR 5/F
	1206		//	-	20% GRAFT	GRAVELY SAND, MED - COMESS GRAVED,
		· ·	 	 	N'/ CUY	SUBBOUNDED, WELL SORTED
			 	 -	10 16 CCGF	GRAVER Z- GIN DIA, SUBROUNDED
72	_		 	 		444 4 2 4 2 2
• •-			 			CLAY DRY, COW PLAST. COW DELLETY
			 			
			 	 		
8 %			 	ļ		GRAFE CONSTITUENT NOT AS
b ~-			 	ļ		, DAYNOMET AS ALL OOF,
			}	ļ 		SEE ABOVE
	<u> </u>		 	 	<u> </u>	
<u> </u>	· · · · · · · · · · · · · · · · · · ·		 			
7 /-			 			6P
	1214		ļ ·		70% 54D	YELLOWISH BROWN 10412 5/4 GRAVELLY.
	0 0				25% 6RMET	SAND WITH TRACE CLAY END TO
0	19-33-0057)				5% clay	COARSE EMINED, SUBROUNDED, MODERNIELY SURTEL GRAVEL UP TO 4 KI IN SIZE SUBROUNDED.
						CLAY LOOSE, DRY, LOW PLAGTECITY, COW
•						DENSITY CON PUBLICITY, CON

Boring La	cation	Project: 7	EAD -	SOUTH	1	SWMU No: SWMU-33 TEST Por 006				
	_	Start date and	l time: /6	-7-94	.12 20	Completion data and time; 10-7-9 &				
	TP-33-007	Drilling Cont	ractor:	I R		Drilling Method: BACK HOE				
				EVOLE	Ma/	BALL HOE				
<u> </u>	· ·	Total depth (_	1865		Diameter (inches): 74 6 9				
•	BLDE /			iameter and le	eneth): BA days	Diameter (inches): 24" BULLET OF BALKHOE WITH S.S. SPOONS				
•	VII 536	Samples colle	cted from b	oring:	D. Cold A colo	. 006C . 606D				
	Head- Max. PID		T		- COS 4 . 006 R					
Depth (feet),	space Reading Reading (ppm)		Sample Type	Sample Recovery	Secondary Compounds and Percentages	Lithologic Description (USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)				
0-	- 0 0	NA	Bott	NA	50% cur	YELLOWSH ROOM INTO SIA SHOW CIN.				
[TP-006A				40% SAUD	COST DELY, COM PLANTICATE, COM DEVENTY, FIRM				
	. /₹30				10% comes	MOD. SQUED WEDTOM GRANIED, SUBROWNOED,				
1-	_		<u> </u>							
		<u> </u>	 							
2-	- DEBRIS - ME	7044 400		20000						
}		- 24 BC		CHARL C	CHEV .					
1		27 126								
j			 			ce de la companya del companya de la companya del companya de la c				
3-	-00	NA	BORT	NH	60% CLAY					
i	TP-006 B				35% SAND	DET, THENEY COW PUBLICITY, SALED MATED- CLAYER				
					5 % 6 FAVER					
	• ,				0 70 0.0 1000					
4—	-									
					•	1				
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					**************************************	1				
			1 .							

Boring Lo	ocation	Project:	EAD-	South	·	SWMU No: SWMU-33 TEST PIT #7				
¬₽-	33-007	Start date and	time: /c			Completion data and time; 10-7-94 1415				
٢٠)		Drilling Cont		UKB		Drilling Method: BACKHOE				
	<u> </u>	Logged by:	7.7	Sendleto	٥~	•				
l	8106	Total depth (CAN I	o' 136≤		Diameter (inches): 24" BACKHOE BUCKET				
	\	Sampler type	and size (d	iameter and I	ength): BACKHOE	, USE STAINLESS STEEL SPOONS FOR SAUDLINE				
		Samples colle	Samples collected from boring: TP-33-009A, 009B, 009C, 009D							
}	Head- Max. P					Lithologic Description				
Depth (feet)	space Readir Reading (ppm)	_	Sample Type	Sample Recovery	Secondary Compounds and Percentages	(USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)				
(1661)		NA	BoZE	NA	CUAY 60%	BAICL DARK GIZYISH BROWN 104R 4/2 SANDY CLAY WITH SOME GIZAVEL, CLAY DRY,				
.			H	1 ~ 1/4	SAND 25%	MODERATELY FIRM, LOW PLASTICITY				
	TP-33-007	**	1-4	 	612AVEZ 15-90	MODERATE DEXISITY SAND MED				
			 	<u> </u>	GIANEC 13 70	TO COARSE GRAINED, SUBROUNDED, GRAVEL SUBAMBULAR - SUBROUNDED,				
1-		,				2-5 N. IN SIZE.				
ŀ										
1										
}										
2-	_									
3	-									
:	0 0	N/A	BOZE	NA	50% SAUD	SP GRAYISH BROWN 104R5/2 GRAVELY				
	TP-33-00 78	<u>`</u>		`	40% Graver	SAND WITH TRACE CLAY SAND.				
					10% (144	SAND WITH TRACE CLAY SAND. MEDIUM TO COAIZSE GRAINED, SUBKOWDED, MOUFTATE SORTING				
4			<u> </u>	<u> </u>						
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Boring Lo	ocation		Project:	-CAD-	SOUTH	4	SWMU No: SWMU-33, TEST AT #7
	33-007	-t-PR	Start date and		0-7-94		Completion data and time; 10 -7-94 1415
TP-:	33-001		Drilling Cont				Drilling Method: BACKHOE
CT)	Logged by:	J. P.	udhto	\sim	•
		7	Total depth (f	fect):	10' 36	<u> </u>	Diameter (inches): 24" BUCKET OF BACKHEE
		BLD6 \ 536	Sampler type	and size (di	ameter and le	ength): BACKHOE	USE S.S. SPOOKS FOR SIMPLING
	71		Samples colle	cted from b	oring: ¬	-P-33-007A	, 007B, 007C, 007N
Depth (feet)	Head- space Reading	Max. PID Reading (ppm)	Blows (6 inches)	Sample Type	Sample Recovery	. Secondary Compounds and Percentages	Lithologic Description (USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)
5-00	-			¥!			
				#1			
		 	ļ	Part I			
			 				AND COUNTY PROVIDED CONTRACT SAND
6 tc		0	N/A	BORE	NA	50% SAVD	WITH TRACE CLAY, GRAVEZ SUBANGULAZ TO
	TP-33-0	2076		(T)		40% GRAVEL	SUBDOUNDED 2-5-W DIA. SAND MED. TO COARSE GRAWED, POORLY SORTED,
			 	774		10% CLAY	COARSE GRAINED, PORCE SOR IED,
7 2=		· - 		417			
1 -2-	<u> </u>		 			· · · · · · · · · · · · · · · · · · ·	
		1		18:16 16:16			
				1			·
8-34	_			 			
9 4	_ 			 			
	TP-33-	-007D	NA	BORE	NA	60% SALD	SAME AS. ABOVE
10	0	0				30% 6124VEL	
						10% CLAY	

,

oring Lo	cation	Project:	SAD-S	SOUTH		SWMU No: SWMU-33 TEST P.T 4-8		
444		Start date and	time: 16	-7-94 1	1415	Completion data and time: 10-1-24 /500		
TP-3	3-00B	Drilling Cont	ractor:	SXB		Drilling Method: BACK HOE		
I		Logged by:			TO-/	1,700,700		
	BUDG	Total depth (f	eet):	A A C	•	Diameter (inches): 24" BRECHOE BUCKET		
	536	Sampler type	and size (di	ameter and le	ength): Beckese	WITH SS. SPOONS		
	14	Samples coile	cted from b	oring:	P- 37-0084	0085,0086 080		
	Head- Max. PID							
Depth	space Reading	Blows	Sample	Sample	Secondary Compounds	Lithologic Description (USCS name; color; consistency plasticity; density;		
(feet),	Reading (ppm)	(6 inches)	Туре	Recovery	and Percentages	moisture content; angularity, additional facts)		
0-	- 0 0	NA	BORE	14	CLAY 66 %	DAZK GRATISH ROMAL INVO 6/7 EAUDY		
	TP-33-008A				5440 25%0	CLAY WITH TRACE BRANZ STATE CLAY DESCRIT		
	1426				enquer 15%	SAND MED-COMPSE GRAVED, SUBROUNDED		
_ · [GRAFL SUBROWNOWS 2-4 M M FAE		
1								
. [•				•	The San All San Annual		
		,			•	CONSTITUTEST OF GRAVEL & SAND OF		
Ī								
2-						a / BES. (Soils MUCH COARSETE GRAINED)		
ľ		 						
ţ		 						
ſ		 				≤P		
3—		·			SAND 46	GENTISH BROWN 10 VR 5/2 GRAVELY SAND		
Ī	0.0	MA	BODE	MA	GRAVEL 40	WITH TIMES CLAY, SAND MED COARDS GRANGED,		
Ì	TP-33-08B	 //			(197 20	SUBBOOKDED, MOD. SORTING, GRAVEL 2-5 14 813		
ſ	3.75' 865	1			41 00	SOBROWDED		
4-								
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Joring Lo	ocation			5 - Sou		SWMU No: SWMU - 35 TEST PIT 8		
7+1	800-82-0	Start date an	d time: 10	>-7-44	1415	Completion data and time: 16-7-24 Drilling Method: BACKHOE WITH 24" EVENT		
		Drilling Con	tractor:	UXB				
·		Logged by:		ENDLE	MM			
	BLD6	Total depth		6'DES	·	Diameter (inches): 24" BULKET OF BACKMOE		
	536	Sampler type	and size (d	liameter and I	ength): BACKHEE	24 BWKET & S.S. Sam./		
		Samples coll	ected from.	boring: 7	P-33-008A	008B, 008C 008D		
Depth (feet)	Head- Max. space Read Reading (ppn	ng Blows	Sample Type	Sample Recovery	Secondary Compounds and Percentages	Lithologic Description (USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts).		
50	-			1		moisture content, angularny, additional facts).		
				 				
Ì			 	† — — — — — — — — — — — — — — — — — — —				
1								
6 x=	-00			 				
	TP-33-008	C N/4	Bore	NA	4=40 - 41	SP		
1	DEPTH 6.3			1-7/	45 1/4 644	SAND WITH TENE CLAY SAND MOD-COMESE		
			- 		5% cur	CRAINED, SUBROUNDED MED. SORTMAG		
720	_		1	 	0 / (
				 				
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8 2=	_			 				
				1.				
			1	1				
					<u></u>	, ,		
94	_		1			sP		
Ì			1.		50% SAUN	YELLOWISH BROWN 10 YR 5/4 GRAVELLY		
	0	NA	BORE	NA	40% CANEZ	SAND WITH TRAFE CLAU		
10	TP-33-∞8			 / ' '	10% CLAY	SAND WITH TRACE CLAY, SAND IS MED. TO COARSE GRAINED, SUBROUNDED, MODERATE SORTING, GRAVEL, 2-5 inches in DIA.		
			<u> </u>		10 10 0017	SOCTIANO, GRAVEL, 2-5 inches in DIA		

SWMU 37 SLAG PILE AND BOMB FRAGMENTS

SWMU 37 SOIL BORING LOGS

oring Location			Project:	DELE	ABMY DE	20T-SOUTH AREA	SWMU No: SWMU 37 58-37-00/B					
	ALTEX	MDETZ.	Start date and		14/94		Completion data and time; 10/4/94 0907					
			Drilling Cont	ractor: (1×B		Drilling Method: BACKHOE WITH MAKNATORETER &					
NECT OF	5 Dx.		Logged by:	J. P	210UT	ow/	S.S. SPOONS AND JARS					
7 ()	W X		Total depth (f	icet): 3	BLS		Diameter (inches):					
			Sampler type			ength): \$7414CESS	STEEL SPOONS WITH BOWLS					
			Samples collected from boring: SB-37-00/B									
Depth (feet)	Head- space Reading	Max, PID Reading (ppm)	Blows (6 inches)	Sample Type	Sample Recovery	Secondary Compounds and Percentages	Lithologic Description (USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)					
0-	.0 -	0	NA	BORE	6"	50% SILT	LIGHT TANNISH BROWN SANDY.					
			7			35% SAND	SILT, LOOSE, DEY, MOD. DENSITY LOW PLASHLITY, POOLLY SOLTED SANDS					
						15% GRAVEL						
1-	_						SAMPLE COLLECTED FROM MOUND OF DESI					
							ADJACFRIT TO THE ZOAD,					
			,									
,												
2-	-											
3—		0	N/4	BORE	6"	50% SIET	1 LIGHT TANVISH BROWN S SANDY					
	58-37	<u>-00/B</u>				35% SAND	SILT, LOOSE, DRY, MOD. DEVSITY, LOW					
	TIME	0907				5% GRAVER	PLASTICITY, SAND FINE GRANGED, WELL SORTED, ROWDED, SMALL V6					
	<u> </u>											
4	-						GRAVEL, DOORLY SORTED AND SUBANGULAR					
		 -					USANGULAL					
				 								
				<u> </u>								

_	ation		Project:	boere.	ARMY D	EPOT - SOUTH PEFA	SWMU No: 37, 58-37-0028		
			Start date and		14/94	·	Completion data and time: 10/4/94 0922		
			Drilling Cont	ractor:	UXB		Drilling Method: BACKING WITH MARONATONETER		
	•		Logged by:	J. Pe	NOLET	10×	STAINLESS STEEL SPONS		
•			Total depth (f	(cet): 3	BLS		Diameter (inches):		
			Sampler type	and size (di	ameter and le	ength): STAINCES	S STEEL SPOONS WITH CORE BARRET		
			Samples colle	cted from b	oring: 🔍	8-37-0028			
Depth (feet)	Head- space Reading	Max. PID Reading (ppm)	Blows (6 inches)	Sample Type	Sample Recovery	Secondary Compounds and Percentages	Lithologic Description (USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)		
0	- Ô	0	NA	BORE	611	50% SILT	LIGHT TANNISH BROWN SMBY SILT, LOOSE, DRY, MOD. DEVISITY		
Ī			7-7-			35% SAVD	SILT, LOOSE, DEY, MOD DEVSTY		
						15% GENEZ	SANDS		
1_			 						
·-[-			 					
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3	-0	0	NA	BORE	6"	40 % SIET	LIGHT THENISH BROWN - SANDY SILT		
[7			30% 6244	WITH SOME GRAVEZ, SILT LOOSE, DRY,		
						20% SAVD	LOW PLASTICITY, SAND FINE - MED.		
						10 % GRAVEZ	GRAINED MOD. SORTING, SUBROUZIDED		
4-	-								
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ŀ			1	1		1			

Project: TOOFLE ARMY DEPOT - SOUTH AREA Boring Location SWMU No: SWMU 37, 58-37-0038 10/4/94 0935 Start date and time; 10/4/94 0950 Completion data and time: BACKHOE WITH STANICESS Drilling Contractor: Drilling Method: PENDLETON Logged by: STEEL COUPMENT (CORE BARREL) Total depth (feet): 3' BLS Diameter (inches): Z"CORE BARREL Sampler type and size (diameter and length): 2" CORE RAPPLEC WITH STANUES STEEL SLEEVES Samples collected from boring: SB -37 -003B Max. PID Head-Lithologic Description Depth Reading Blows Sample Sample Secondary Compounds space (USCS name; color; consistency plasticity; density; (feet) Reading (6 inches) and Percentages moisture content; angularity, additional facts) (ppm) Type Recovery - Ö 216HT TANKISH BROWN BORE 611 50% SICT 0 SILT LOOSE DRY, MOD. DEVISTY, LOW PLAKTICITY, PORLY SOPTED SHID 15% GRAVEL 2-ROBE DYO SILT 6 CAME AS DESCRIBED ABOVE 30% SAO 20% GRAVEL

	ation		Project: '7	EAD-	South	}	SWMU No: 5WMU 37, 38-37-004B							
			Start date and				Completion data and time; 10-4-94 1030 Drilling Method: Boltoce With Bocktoe,							
			Drilling Cont		XB									
			Logged by:		YDLET	~*/	DOWN TO 3' BGS, SAMPLE ON CORE SAM							
		•	Total depth (f	cet): 😮	'86S		Diameter (inches):							
				ampler type and size (diameter and length): 2" CORE BARREL WITH S.S. SLEEVES amples collected from boring: SB- 37-004 B (METM., PCB, SVOC MEETING BERMY DOWN)										
•			Samples colle											
				1	Z (3-37-004 D								
Depth (feet)	Head- space Reading	Max. PID Reading (ppm)	Blows (6 inches)	Sample . Type	Sample Recovery	Secondary Compounds and Percentages	Lithologic Description (USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)							
0	- Ö	0	N/A	Boes	59	50% cur	CT TELEMEN BOWN SAVOY SILTY CLOY							
ſ						70% SAT	CLAY COOSE, DEY, MOD. PLASTICITY, MAD. DELETTY SAND FINE GOMMED, WELL SOCTED, SUBJECTURED							
Γ						10% SAUD								
. [10% GBAGE								
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3_	- 0	0	N/A	BOSE	69	50% CLAY	(SAME AS ABIVE)							
}			7/4		6	30% SILT								
·			-			10% SAED								
t			 	 		10% 524VEL	· ·							
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Boring Lo	cation		Project:	EAD-	Soutt	1		SWMU No: SWMU-37 SB-37-005B				
			Start date and	time: 10	-4-94	/030		Completion data and time; 16-4-94				
			Drilling Cont	ractor: U	×B.			Drilling Method: BACKHOE WETH CORE BAPRECL				
			Logged by:			4						
		i	Total depth (f	lect): 3	B65			Diameter (inches): Z CORE BARREL				
			Sampler type	and size (d	iameter and l	ength): Z	" CORE	BARRELL W. S.S. SLEEVES				
			Samples colle	cted from b	oring: SZ	3 - 37-	005 8 /	PREPARS, PCD SVOC ACTOR BREAKDOWN				
Depth (feet)	Head- space Reading	Max. PID Reading (ppm)	Blows (6 inches)	Sample Type	Sample Recovery	Seconda	ry Compounds Percentages	Lithologic Description (USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts).				
0-	- Ö	0	dia	Bort	64	76	% SAND	YELLOWEH BROWN 1076 MINTER SCHOOL				
			•		100%		O GRAVEZ	SOME SAND AND CRAPEL. SAND SCRAFT				
						100	SILT	PORRLY SORTED,				
1—	-							CHATTEN SPONNEH GRAT TOTR EAD FER				
2—	-											
					<u> </u>							
	 			 	 		 					
3—	- 0	0	NA	Bost	6+	60%	5~2	YELLOWISH BROWN MYR SAMOY GRAVEL				
	58-3	7-00SB					68hez	with some coly				
	/03	5				15%	Cur					
4							· · · · · · · · · · · · · · · · · · ·					
•								·				

or ing too	ation		Project:	2MD-5	00771		SWMU No: SWMU 37 S8 - 57-0062							
			Start date and			1055	Completion data and time: 10-4-94 11 25							
			Drilling Contr		IXB		Drilling Method: * BACKBOE WITH COST BARRELL							
			Logged by:)~/								
		•	Total depth (f	eet): 3	' R65		Diameter (inches): 2" CORE SAPPER							
				ampler type and size (diameter and length): CORE BARREL WITH S.S. SCEEVES										
·		•	Samples colle	cted from b	oring: <	-37-006B								
	Head-	Max. PID					Listatuia Descriptio							
Depth (feet)	space Reading	Reading (ppm)	Blows (6 inches)	Sample Type	Sample Recovery	Secondary Compounds and Percentages	Lithologic Description (USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)							
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3-	- 0	0	· · · · ·	 	 		YELLOWISH BROWN 10 YR THUDY BENGE							
}			 		 		WITH SOME CLAY, ERALEL SUBBANDED PROBLY							
Ì	1110	7-068				•	FORTED, ALLOVER KUTETLIKE							
					 									
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oring Lo	cation		Project: 7	EAD -	Sour	'H	SWMU No: SWMU 37, 58-37-0078					
			Start date and		0-4-94		Completion data and time; 10-4-94 1145					
			Drilling Conti		WB		Drilling Method: BACKLOE W/ CORE BARREL					
			Logged by:			P. DILLON						
		•	Total depth (feet): 3' BGS Diameter (inches): Zet COPE BARREL									
•			Sampler type			ength): ORE BAG	cra W S.S. SURVES					
·			Samples colle			8-37-0073	30000					
Depth (feet)	Head- space Reading	Max. PID Reading (ppm)	Blows (6 inches)	Sample Type	Sample Recovery	Secondary Compounds and Percentages	Lithologic Description (USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)					
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2-						~ <u>-</u>						
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3_		_··			-							
,	- 0	0	N/A	Botte	6*	40 % Gran	LIGHT TELLOWISH BROWN 10 YR 5/4 SAVDY GRAVEL WITH SOME CRAY, LOOSE, DET, POORLY					
		37-057	<u> </u>		106%	40% SOND	SORTED, SUBSOUNDED GRAVER, SAND MED.					
;	5 `(36.5	}	ļ		20% CLAY	GRANGED, SUBLOWNED, ALWIN MATCHIAL					
	14	15										
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Boring Lo	cation	Project:	TEAD.	- SOUTH		SWMU No: SWMN 37 58-37 - 008 B			
		Start date and		0-4-94		Completion data and time; 1014/14 1162			
		Drilling Cont		uxB		Diameter (inches): Z ** CORE BARREL			
:		Logged by:		DLETON	P. DILLON				
	•	Total depth (3' B65	1-019010				
•		Sampler type			ength): COPE B				
		Samples colle			58-37-0088				
Depth (feet)	Head- Max. PII space Reading Reading (ppm)		Sample Type	Sample Recovery	Secondary Compounds and Percentages	Lithologic Description (USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)			
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3—	- 0 o	N/A	BIRE	6"	-60% SAND				
	48-39-0088	· ·	<u> </u>	100%	402 SILT				
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TOD-SOUTH Boring Location Project: SWMU No: SWMU 31 48-37-008B Start date and time: 1195 Completion data and time; 1200 Drilling Contractor: Drilling Method: DIWAN Logged by: 、て 31865 Total depth (feet): Diameter (inches): OPE BARRA Sampler type and size (diameter and length): CORE BALLER Samples collected from boring: 98-39-009 3 Head-Max. PID Lithologic Description Depth space Reading **Blows** Sample Sample Secondary Compounds (USCS name; color; consistency plasticity; density; (feet) (6 inches) Reading (ppm) Type Recovery and Percentages moisture content; angularity, additional facts) 1-2bn BIKE NIA cor GRAVEL 58-39-008B 1002 3'865 10% FILT 1200

1

loring Lo	cation		Project:	100-	South		SWMU No: SWMU 31. 98-31-010 B						
			Start date and		4 94	1205	Completion data and time: 10/4/94 1210 Drilling Method: BACKHOE W/ OFF BAFFE Diameter (inches): 2º CORE BAFFE						
			Drilling Cont		ILX B								
			Logged by:	J.PR	DUETON	P. DIMON							
		•	Total depth (f		Bas								
						ength): CAGE 240							
•			Sampler type and size (diameter and length): COPE BARRELY Y 5.5. SURVES Samples collected from boring: SO-31-010 B										
	17. 4	M. DID				0 0 0 0 0 0							
Depth (feet)	Head- space Reading	Max. PID Reading (ppm)	Blows (6 inches)	Sample Type	Sample Recovery	Secondary Compounds and Percentages	Lithologic Description (USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)						
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		1-010B Bas	 	 -									
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SWMU 37 TEST PIT LOGS Boring Location Took Army Depot - South Area SWMU No: 5WMU 37 TP-37-001 POLE Start date and time: 10/4/94 test pit Completion data and time; 10/4/94 14:10 14 35 C25 Drilling Contractor: UXB Drilling Method: BACK HOG Logged by: J. Pendleton Diameter (inches): Buck HOE TRENCH Total depth (feet): 1.5 'BLS Sampler type and size (diameter and length): 5.5. SPOONS AND 200 ML Glass containers Samples collected from boring: TP-37-001A, TP-37-001B, TP-37-001C, TP-37-001D

	سيساسا المجامع	- PVA					
Depth (feet)	Head- space Reading	Max. PID Reading (ppm)	Blows (6 inches)	Sample Type	Sample Recovery	. Secondary Compounds and Percentages	Lithologic Description (USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)
0			NIA	1			
	TP-37-0	OIA (0.5')	slag	BORE	NIA	Slag.	
İ	TP- 37-0	010(0.51)		BORE	1	,	
		5 AMPL	ES / P/75	INS	LAG PI	ES	
1	-TP-37-	00D (1.5,)		BORE	NIA		
1.5	TP-37-	0018(1.51)		BORE	V		
	[<u>'</u>				
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Samples collected from above and below virgin barrier •

Boring Location _{Po∪≥}			Project: "TOOFLE ARMY DEPOT- SOUTH AREA				SWMU No: 2004 37 TP- 37-002		
c25							Completion data and time; 10/4/94 1555		
							Drilling Method: T3ACLHOE		
	Libry	(/%/)	Logged by:	J. PE	NDLETON				
	260°	Grovel	Total depth (fo	eet): \. 5	218 'Z		Diameter (inches): BACKHOE TRENCH		
7	H	Mound	Sampler type	and size (di	ameter and le	ength): S. S. S POONS	AND 250 ML GLASS CONTAINETS		
TP-39	-∞2_		Samples collected from boring: TP-37-002A, TP-37-002B, TP-37-002C, TP-37-002D						
Depth (feet)	Head- space Reading	Max. PID Reading (ppm)	Blows (6 inches)	Sample Type	Sample Recovery	Secondary Compounds and Percentages	Lithologic Description (USCS name; color; consistency plasticity; density; moisture content; angularity, additional facts)		
0									
	TP-37-00	2A (0.5)	NIA	Boes	NIA	Slag			
	TP-37-007	2C (0.51)	NIA	Bort	4				
<u> </u>			SAMPLES	FROM	TRENCH	THROUGH SLAG PILE			
1—	- те- 37-	00 S B (1,)	NIA	BURE	NIA				
1,51	TP-37-C	42D (1')	NIA	BURE	4				
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2—									
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Samples collected from above and below virgin barrier									
7/	- • •	·							

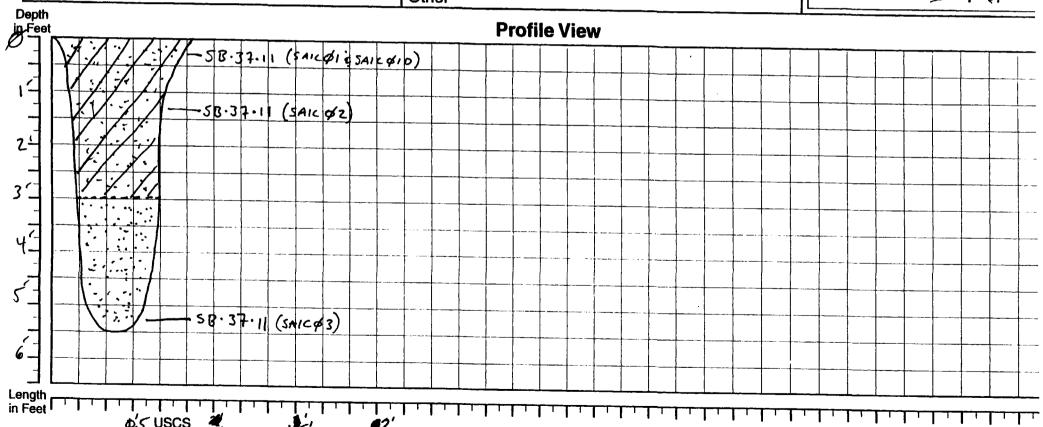
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TEST PIT LOG

PAGE_ l of 2

Cha N		. 405 OF	
Site Name: DESERT CHEMICAL DEPOT	Test Pit No SB-37-11	Dian Wasse	
Site Location: SWMY 37	Surface Elevation:	Plan View	
Coordinates: N- E-	Depth to Standing Water: A//A	-	
Start Time: / 6 3 5 (424%) Finish Time: /6/6/(2/22/99)	Disposition of Excavated Material: BACKFILLED	-	
Backhoe Equipment: HAND HELD POWER AVAER	Disposition of UXO Encountered:	PLUME ST.	
G" FLIGHT DIAM.	Personnel: PATRICK SODERBERG (SAIC)		
Pit Orientation:	Geologist—	0,2435-15	
Total Depth: 5.5 'Bas	Backhoe Op— Cecil Taylor (ATI)		
Pit Length: ~8"puncture	Helper— DARRYL WALDEN (ATI) Other—	Thomas work	
ppth			



Φ΄.ς USCS A. Soil Type

Soil Description

Sample No.

Sample Depth

PID Readings

Remarks

- Sec. DAGE 7. of 7



TEST PIT LOG

PAGE 2 OF 2

Site Name: Site 37

Test Pit No.: SB・37・11

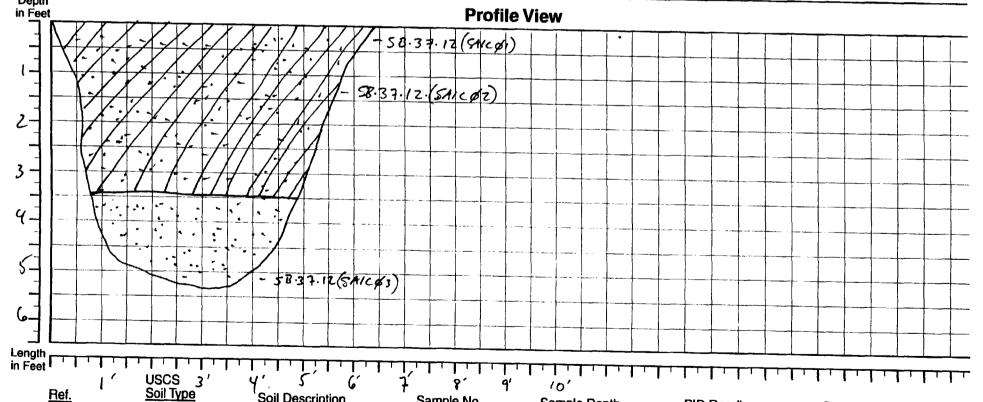
Ref.	USCS Soil Type	Soil Description Two weres at gravel place SANOT clay	Sample No. 5B 37. Ø11 (SAICØ) 5B 37. Ø11 (SAICØ)	Sample Depth 1) Ø - Ø.5's es a)	PID Readings	Remarks AREA IS NON-VELETATED WITH RUSTY METAL DEBLIS STREWN ON SURFACE.
		GRAVETTY SANDY SOND WITH BURNT & PLUSTED METAL FRAG - Soil Discolored (WHITE, GRA AND DARK BROWN)		(SAIC&Z) 1-1.5'BGS	Øgpm	SAMPLE COLLECTED AMIDST BURNT'S RUSTED METAL FRAGMENTS.
		CIQUE BROWN SANDY, GRAVETTY SALL	E 53.37 Ø11	(SAIC\$3) 5'-5.5'865	Ø gpm	SAMPLE COLLECTED BELOW METAL DEBRIS -EXTENT OF METAL PEBRIS SUFFACE A 3.0 2GS. AT 5' METAL DEBRIS IS NO LONGER PASSENT.



TEST PIT LOG

PAGE | OF Z

Sito Namou O		1 40E OF
Site Name: DESEART CHEMICA DEPAT	Test Pit No.: SB-37-/2	Plan View
Site Location: Sway 37	Surface Elevation:	Fidit view
Coordinates: N- E-	Depth to Standing Water:	
Start Time: \$81\$ Finish Time: \$8\$\$\$	Disposition of Excavated Material:	Blume st.
Backhoe Equipment:	Disposition of UXO Encountered:	Beare 37.
Pit Orientation: Pit 13 A Hole	Personnel: PATRICK SOMERBERG (SAIC) Geologist—	\$ \$37.17 \$ \$937.17 \$ \$937.17
Total Depth: 5.5'865	Backhoe Op- CECIL TAYLOR (ATI)	58.37.14
Pit Length: ~ 6	Helper— DARRY L WOLDEN (ATI) Other—	
Denth		



Ref.

Soil Description

Sample No.

Sample Depth

PID Readings

Remarks

GRADULT SAMOY CLAY AMIDET PURSEMENT & BURNETHISS.LE

See page Z.fZ

GRAVELLY
ROOMY SAIDY Clay
Disclored Black a white (former)



TEST PIT LOG

PAGE 2 OF 2

Site Name: Swmu #37

Test Pit No.: 58-37-12

Ref.	USCS Soil Type	Soil Description	Sample No.	Sample Depth	PID Readings	Remarks
	5	"of small ararel above and a clay windows.	58.37·12(sa/cø/)	Ø-Ø.5'Bas	Sppm	-AREA IS NONNEGETATED WITH RUSTED METAL PERRIS 4. MISSILE BODIES (4"x14") STREWN ABOUT.
	51 14	LOCKY SANOY clay w/ lay, rusted metal is issile badgum Arangus is black discolored	58.37.12 (SAIC\$Z)	1-1.5 BGS	Вррм	missile body pratt, 5 lag, rusty metal a discolored (black) soil.
	iat	ermited with white per.	5B.37.128A1c#3) 5=5.5 Bas	Ø ppm	WHITE POWDER IN Soils.



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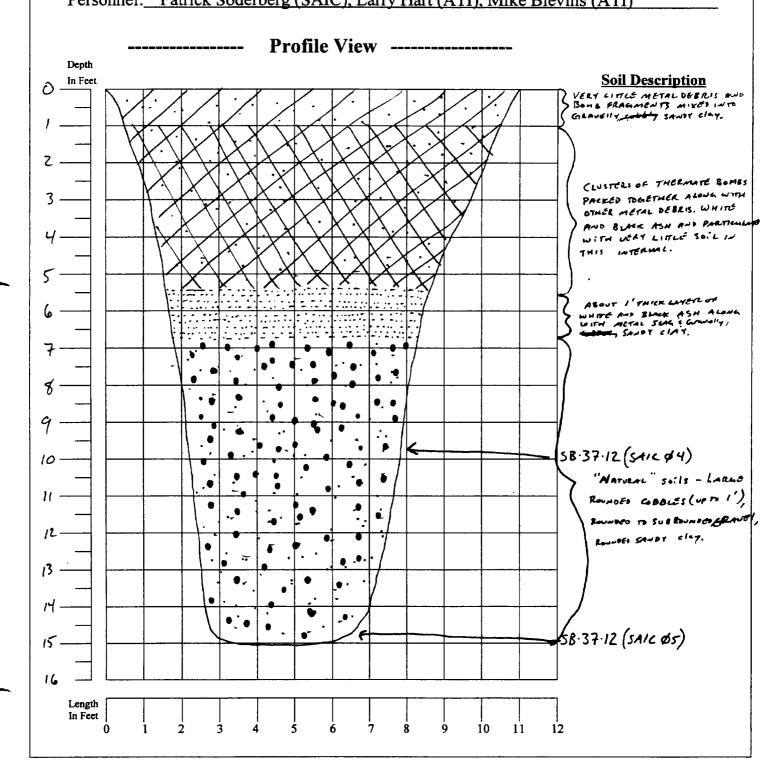
Page 1 of 2 Date: 1/26/00

Test Pit Log

Project Name and Number: Descret Chemical Depot (01-0827-03-6523-028)

Test Pit Number: Begin: 1440 Completed: 1550

Personnel: Patrick Soderberg (SAIC), Larry Hart (ATI), Mike Blevins (ATI)





Page 2 of 2 Date: 1/26/00

Test Pit Log (Cont.)

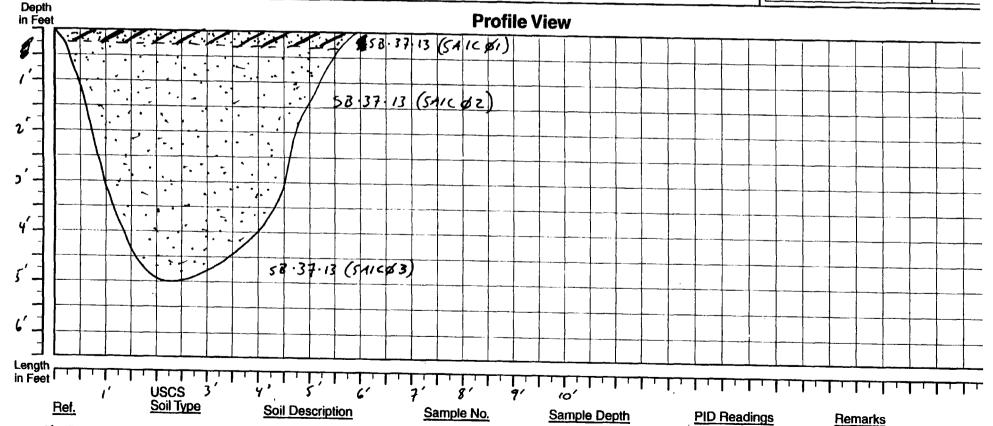
Project Name and Number: Desert Chem	ical Depot - 01-0827-03-6523-028
Test Pit Number and Site Location: <u>Site 37</u>	- SB.37.12
	Plan View
Backhoe Equipment: <u>CASE 580L Turbo</u>	BLUME ST.
Disposition of IDW: Backfilled	
Disposition of UXO: N/A	\$1.37.15
Depth to Water: None encountered	Øs8-37/12
Surface Elevation:	38.37.76
Coordinates: NS	
USCS Soil Type Soil Description Sample DRY COBBLY, GRAVEITY Clayer Sand. Colbles well rounded TO 1' DAMAGER. - GRAVET rounded TO 504 round	akeda) 10' Bas Oppm
Comments:	

<i>#</i>		
	7/:	=
	H	₩.
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PAGE 1 OF 2

Remarks

Site Name: Desert CHEMICAL DEPOT	Test Pit No.: 5B-37-13	Plan View
Site Location: Sway #37	Surface Elevation:	- Fiail View
Coordinates: N- E-	Depth to Standing Water: ル/A	 \
Start Time: 1220 Finish Time: 1245	Disposition of Excavated Material: BACKEILLED	Blumé ST.
Backhoe Equipment:	Disposition of UXO Encountered:	7
Pit Orientation: Hole	Personnel: P. Sobersena (SAIC) Geologist—	58.37.12 58.37.12
Total Depth:	Backhoe Op— CECIL TAYLOR (ATI)	5037.14
Pit Length:	Helper— DARRYL WALDEN (ATI) Other—	



ROCKT SANDT Gravelly clay with metal debris & missile fragments.

(- See PAGE Z. f Z)



PAGE 7 OF 2

Site Name: Swmy 37

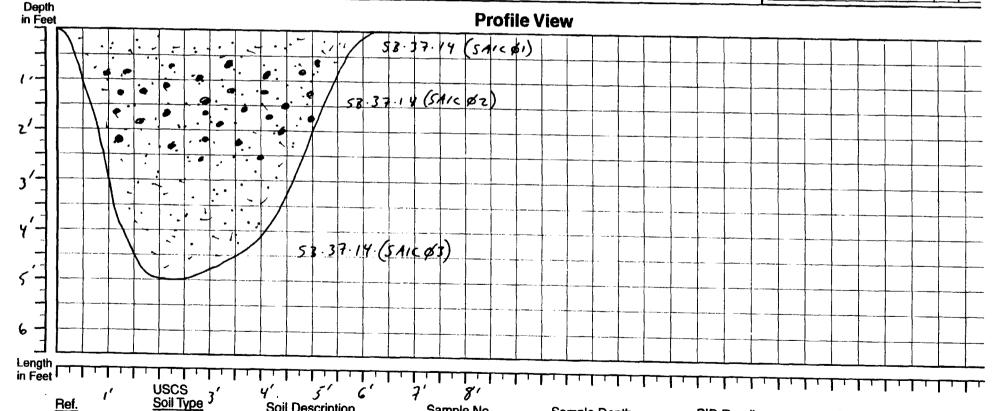
Test Pit No.: 58.37.13

Ref.	USCS Soil Type Soil Description	Sample No. Sa	mple Depth	PID Readings	Remarks
	TOP 3" of Ground surface was rocky somet clay with metal fragments & Missile Bodies (rusted).	58.37.13 (SAICØI)	Ø- Ø.5 '84,	\$ppm	- AREA WAS NON-USGETATED
回	ROCKY gravelly sandy clay	SB.37.13(SAIC#Z)	/-1.5 Bes	Вррм	
	SANDY Gravelly clay	50.37.13. (8416.63)	5-5.5 (263	Øpp.n	



PAGE___ OF__

Site Name: DESELET CHEMICAL DEPOT	Test Pit No.: 5 8 . 3 7 - 1 4	Plan View
Site Location: Sway 37	Surface Elevation:	- Fiall View
Coordinates: N- E-	Depth to Standing Water: N/A	⊣ \ /
Start Time: Finish Time:	Disposition of Excavated Material: BACKETILLED	BLUMEST.
Backhoe Equipment:	Disposition of UXO Encountered:	7
Pit Orientation: Hole	Personnel: P. Son En DERK (SAIC) Geologist—	58.73.14
Total Depth: 5' \$65	Backhoe Op— CECIL TAYLOR (ATI) Helper— THRAYL WALDEN (ATI)	58.77.14
Pit Length:	Other—	- 3



Ref.

Sample No.

Sample Depth **PID Readings**

Remarks

SAMOY GLAVETY clay

Soil Description

(- see page 2.f2 -)



ROCKY, PEBBLY SANDY clay



PAGE 2 OF 2

Site Name: Swmu 37

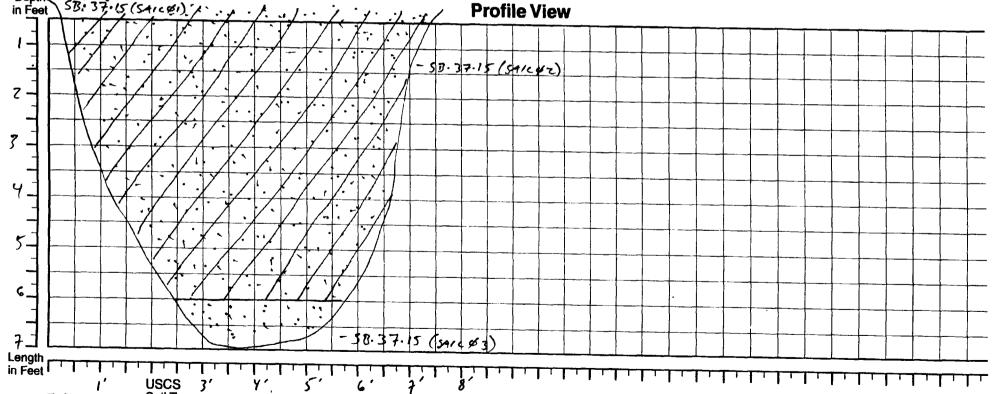
Test Pit No.: SB-37-14

Ref.	USCS Soil Type Soil Description	Sample No.	Sample Depth	PID Readings	<u>Remarks</u>
		58.37.14 (SAIC ØI)	Ø-Ø.5 '86s	Вррм	AREA IS VEGETATED WITH FORDING SAGE WITH LARGE RUSTED METAL SCRAPS (SOME MISSILES DODG)
	ROCKY, PEBBLY SANDY Clay	58·37·14 (541cøz)	1-1.5 803	Øzpm	
	5MDY GRAVEILY clay	SB.37.14 (5A1CB3)	5-5.5 363	ppm	

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PAGE 1 OF 2

Site Name: DESEART CHEMICAL DEPOT	Test Pit No.: 58-37-15	Plan View
Site Location: Swmu #37	Surface Elevation:	Plati view
Coordinates: N- E- 1220	Depth to Standing Water: N/A	-
Start Time: 1200 (2/23/91)Finish Time:	Disposition of Excavated Material: Back Fices	BLUME ST.
Backhoe Equipment:	Disposition of UXO Encountered:	1 (22.37.15
Pit Orientation: Hole	Personnel: 12. Soperation (SAIC) Geologist—	
Total Depth: 7'	Backhoe Op— Cecil Taylor (ATI) Helper— Darry Galpen (ATI)	
Pit Length:	Other—	3



Ref. Soil Type Soil Description

Co. Is INTERDIXED WITH DIETAL DEBAIS

Sample No.

Sample Depth

PID Readings

Remarks

- In GAMON Gravelly clay



PAGE 7 OF 7

Site Name: Swmu 37

Test Pit No.: SB・37・15

Ref.	USCS Soil Type Soil Description	Sample No.	Sample Depth	PID Readings	Remarks
17.	PERSON SANDY CLAMP W/ METAL DERNIS	5B.37.15 (SAICBIÈSAI	(ck10) 0-6.5 BES	Фррм	ANTA COVERED DY WEEDS E MOSS. RUSTED METAL AND MISSILE BODDES SUTTOURN AREA.
	Gravelly SAVOY clay with white powder intermed & rietal Iteris	58.37.15 (Saicge)	1-1.5'865	Фррм	Anyle collected Between A pile of missile Bodies - Alot of white Powder Intermise With Sample MEDIA.
ET .	Graneley Sangly clay	S 8.37.15 (SAKØ3 E	5A1C\$3D) \$6.5-76	ss ppm	METAL DEBRIS ENCOUNTRED TO 6 BGS - SAMPLE COLLECTED DIRECTLY BENEATH.



Page 1 of 2 Date: 1/25/00

Test Pit Log

Project Name and Number:	Deseret Chemical Depot	(01-0827-03-6523-028)
Test Pit Number: 58.37.15	Begin: 1020	Completed: 123¢
D 1 D 1 1 0 1 1	(CAIC) I II (AFT)	•

Personnel: Patrick Soderberg (SAIC), Larry Hart (ATI), Mike Blevins (ATI) Profile View -----Depth **Soil Description** Generaly Sandy Soil with little metal debris. MOSTLY METAL DEBRIS AND THERMATE BOMBS INTERMIXED WITH AloT OF WHITE POWDER, DAT GRAVERY clayer sands. WHITE POWDER INTEMINES WITH DAY ROUNDED ME subrounded gravely sands. € 3B.37.15 (SA/CB4) 10 (Saic #45) DRY COBBLY, GRAVEIN, clayey sans - rounded cobbles 12 - monday to tub rounded gravel & sand -58.37.15 (SAIC\$5) Length In Feet 10 11 12



Page 2 of 2 Date: 1/25/00

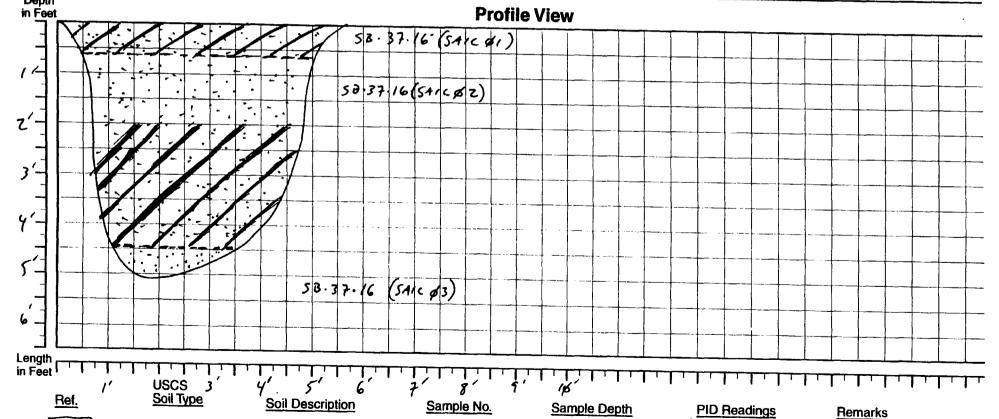
Test Pit Log (Cont.)

Project Name and Number: <u>Descret Chemical Depot - 01-0827-03-6523-028</u> Test Pit Number and Site Location: <u>Site 37 → SB·37·15</u>
Plan View
Backhoe Equipment: CASE 580L Turbo BLume St
Disposition of IDW: Backfilled
Disposition of UXO: N/A
Depth to Water: None encountered
Surface Elevation:
Coordinates: NS
3 - J
USCS Soil Type Soil Description Sample # Sample Depth P.I.D. Readings 5 YR 3/2 DARY WITH A Productive parties, Sp. 37.15 (SAIC & 4 and SAIC & 40) DARY WITH A Productive parties, Sp. 37.15 (SAIC & 4 and SAIC & 40) SAID (low plasticity) - (would no subrounded. 5 YR 4/4 ZEDDISH BROWN DRY roaded cabbles, Grandly, clayer said
Comments:

		,
-7/4		
An Employee-Or	wned Compani	,

PAGE___ 0F__2

Site Name: Desert Guerical Derot	Test Pit No.: 58.37.16	Diam Vienn
Site Location: 5umy 37	Surface Elevation:	Plan View
Coordinates: N- E-	Depth to Standing Water: NA	 []))
Start Time: 0845 2/23/49Finish Time: 0900	Disposition of Excavated Material: BARRELLES	BLUME ST.
Backhoe Equipment:	Disposition of UXO Encountered:	
Pit Orientation: HoLE	Personnel: P. Sovensena (SAIC) Geologist—	-58-37-11 -58-37-958-37-11 -58-37-958-37-12 -58-37-13
Total Depth: 5 '865	Backhoe Op— CECIL TAYLOR (AFI) Helper— DARRYL WALDEN (AFI)	
Pit Length:	Other—	



SANDY GRAVERY clay with rusted metal is missile fragments

SANDY GRAVELLY clay



PAGE 7 OF 7

Site Name: Swm4 37

Test Pit No.: 58.37.16

Ref.	USCS Soil Type Soil Descript	ion Sample No.	Sample Depth	PID Readings	Remarks
	GRANNITY SANDY CLAY WITH THE METAL FORYMENTS	-l 58.37.16(stic#1)	0- Ø· 5 Bas	\$ pps	AREA covered with moss AND GRASSES. Ruster METAL SCRAPS & Missile bodies in area also.
	ROCKY, pebbly sand, clay	5B·37·16·(541c\$Z)	1-1.5 843	Øzen1	
	Gravelly sand soil with precess of metal fregmens.	53.37.16 (5416 \$3)	5-5.5 865	Ø ppm	METAL GRAYMENTS @ This DEPTH CAME FROM UPPER PORTIONS of EXCAVATION.



Page 1 of 2 Date: 1/25/00

Test Pit Log

Project Name and Number: Descret Chemical Depot (01-0827-03-6523-028) Completed: 1505 Test Pit Number: 58.37./6 Begin: 1300 Personnel: Patrick Soderberg (SAIC), Larry Hart (ATI), Mike Blevins (ATI)

Profile View ----Depth **Soil Description** In Feet Gravelly savey day - dry WALL A LITTLE METAL DERAIS. DRY COBBLY, GRAVEILY, SANDY CITY WITH A lot of METAL & BOME DEBRIS. DRT COBBLY, GRANGIT, SANDY CLAY WITH AloT OF METAL S BOMB DEENS-ALSO WHIRS, GRAY and BLUE BOWOOK MUES INTO BOIL. DRY COBBLY, GRNGHY EANDY Clay WITH ALOT OF METAL & BOAD PEBRIS. 58.37.16 SAIC BY SAIC BYN SAIC BYNO DRY COBBLY GRASILY • SANDY CLAY. - ROUMES TO SUBGOINLES • • CUBBLES TO A" 13. - ROUMBED TO SUB AMBOUR GRASI 14 - ROUNDED of Subrounded ~ SB|37-16(sucas) 29.40. 15 Length In Feet 12 10 11



Page 2 of 2 Date: 1/25/00

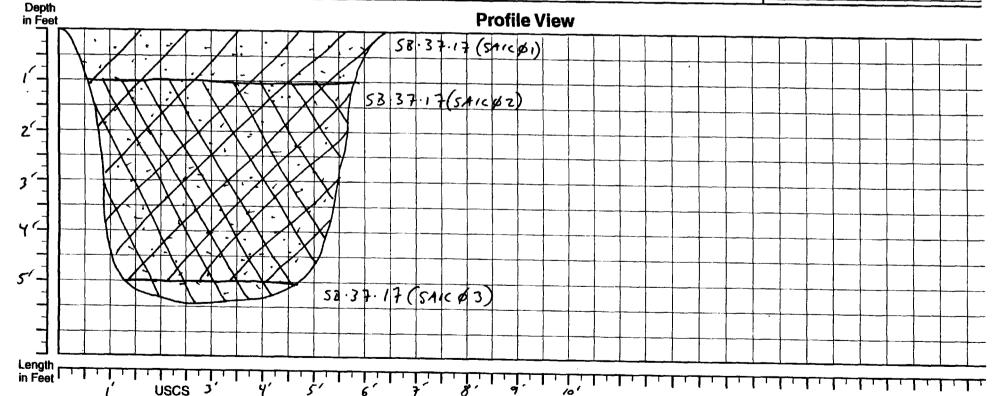
Test Pit Log (Cont.)

Project Name and Number: Deseret C	hemical Depot - 01-0827-03-6523-028
Test Pit Number and Site Location: Site	
	Plan View
Backhoe Equipment: CASE 580L Turbo	Blunt ST
Disposition of IDW: Backfilled	\$8.37.15 BLUTE
Disposition of UXO: N/A	OSB-37/12
Depth to Water: None encountered	58.67.16
Surface Elevation:	- (38.87.16)
Coordinates: N S	
USCS	
Soil Type Soil Description San	nple # Sample Depth P.I.D. Readings
COBBLES.	B.37-16 (SAILBYSOLEWON @ 10'BLS DPPM -MS/MSD SAILBYND) B.37-16 (SAILBYND) AT 15'BLS DPPM
Comments:	



PAGE_/ OF 2

Site Name: Desert CHEMICAL DEPOT	Test Pit No.: 58.37.17	Plan View
Site Location:	Surface Elevation:	- Tall View
Coordinates: N- E-	Depth to Standing Water: NA	
Start Time: 0905 2/23/7 Finish Time: 0920	Disposition of Excavated Material:	7
Backhoe Equipment:	Disposition of UXO Encountered:	Blums St.
	Personnel: P. Soversen & (SAIC)	58:37.21 58:37.21
Pit Orientation: Hole	Geologist—	58.37.44
Total Depth: 5,5'363	Backhoe Op - CEIL TAYLOR (ATI)	-
Pit Length:	Helper— Other—	



Gravely SANDT clay with rustal mossile fragmonts

Gravely saver clay with white powder

Gravelly sandy clay with rusted missile fragments and white powder

Sample Depth

PID Readings

(See page 2 of Z)

Remarks



PAGE OF 2

Site Name: 5wmy 37

Test Pit No.: 58.37.17

Ref.	USCS Soil Type Soil Description	Sample No.	Sample Depth	PID Readings	<u>Remarks</u>
77	Growlly clay with rosped missie fragments.	58.37.17 (SAICGI, SAIC	:\$IN, SAIC \$INO) 0-4.5	5'865 Øppm	AREA is non-vegetated and surported by pushed missile bodies.
	Gravelly saidy clay with rusted neval fragments & white powder	5B.37.17 (SAIC#2)	1-1.5 86s	Вррм	A Rows of missiles All arranged regether where located @ 1-3 ga.
	Gravely samps clay -discolored with white Talc-like powder.	58·37·17 (sace 63)	5-5.5 sas	Jppm	SAMPLE CONTRINED DISCOLLADSOIL (WHITE POWDER WITCHMIXED).



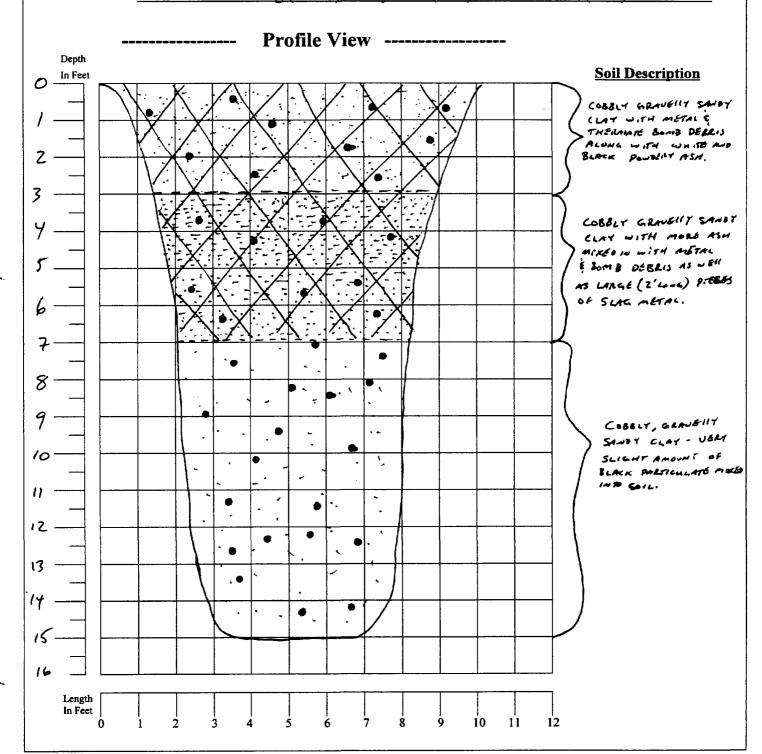
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Page 1 of 2 Date: 1/26/00

Test Pit Log

Project Name and Number: Descret Chemical Depot (01-0827-03-6523-028)
Test Pit Number: 58.37.17 Begin: 13 Ø S Completed: 143 S

Personnel: Patrick Soderberg (SAIC), Larry Hart (ATI), Mike Blevins (ATI)





Page 2 of 2 Date: 1/26/00

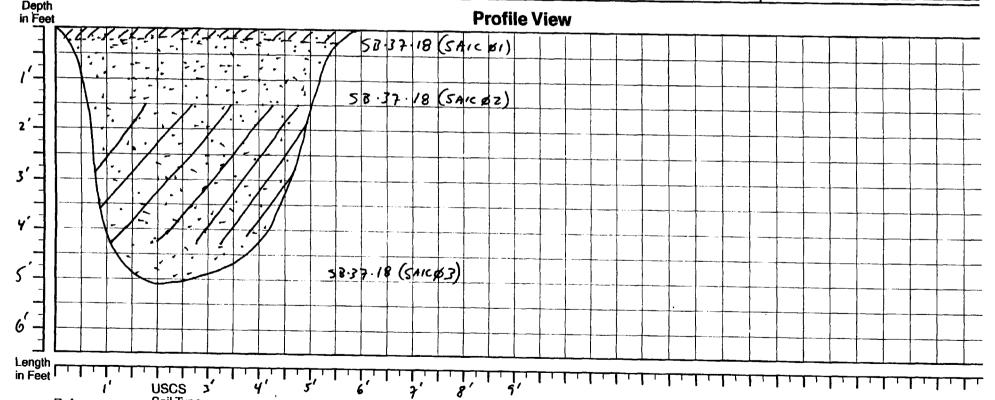
Test Pit Log (Cont.)

	e and Number: Dese				-6523-028	
Test Pit Num	ber and Site Location:	Site 37	58,37	.17		
				<u>Plan Vi</u>	<u>iew</u>	
Backhoe Eq	uipment: <u>CASE 580L T</u>	<u> Turbo</u>		BLYME ST		1
Disposition	of IDW: Backfilled		*	58.	37.15	
Disposition	of UXO: <u>N/A</u>		1 58 23/	1 237.48	● 58-37-/12 ● 58-37-/12	1
Depth to Wa	ater: None encountered			59.37.17	37/16	
Surface Elev	vation:			, , ,	'//	
Coordinates	: N S					1
			L			
USCS Soil Type	Soil Description	<u>Sample</u>	# <u>Sar</u>	nple Depth	P.I.D. Readir	1 <u>g</u> s
10YR 4/Z KGRAYISH BROWN	COBBLY, GRAVEIT, SANDY CLAT COBBLES - ROUNGED TO SUBR - GRAVET L. TAMP . ROUNGED SUB ANGULAR CLAT - LITTLE TO NO PU	04 N D C S	(saic & 4)	70'BLS	Фррм	
1072 4/2 GRATISH BROWN	-SAME AS ABOUT -	S (T - 37 - 1	7 (5416\$5)	15 ° BLS	Фррм	
Comments:						

	= ;	
-7/4		=
An Employee-On	vned C	IIII ● OMO&nv

PAGE / OF 2

Site Name: DESERT CHEMICAL DEPOT	Test Pit No.: 58-37-18	Plan View
Site Location: Swmy 37	Surface Elevation:	- I lall view
Coordinates: N- E-	Depth to Standing Water: NA	
Start Time: 0945 2/23/4 Finish Time: 1005	Disposition of Excavated Material: Therefore	BLUMEST.
Backhoe Equipment:	Disposition of UXO Encountered:	
	Personnel: P. Soderberg (SAIC)	
Pit Orientation: HoLe	Geologist—	50.37.2
Total Depth: 5.5 Bas	Backhoe Op— CECIL TAYLOR (ATI) Helper— MRRYL WALDEN (ATI)	
Pit Length:	Other— Street Called (ATI)	Marie



Ref.

Soil Type

Soil Description

Sample No.

Sample Depth

PID Readings

Remarks

GRAVERY SAMOY clay with metal debris

(See page 2.82)

Gravelly savor clay



PAGE 7 OF 2

Site Name: Swmy 37

Test Pit No.: 58 · 37 · 18

Ref.	USCS Soil Type Soil	Description	Sample No.	Sample Depth	PID Readings	Remarks
	Rocky Gravely Sandy clay rusted metal fragments.	w:th	58.37·18 (SAICØI)	0- Ø. 5 BES	Ферм	AREA was non-vagatured and surrounded by missike bodies.
	GRAVELLY SAMOY clay		58.37.18 (saleger)	1-115805	Øp pm	Between 1.5 and about 5'803 Nove was large
	Gausly Sonor clay		58.37.18 (SAIC Ø3)	5-5.5 Bus	Bapm	Pieces of scray metal, Pipes, RR TRACK i other metal dob. That slouches into the hole. Metal debris ended e about 5'865.



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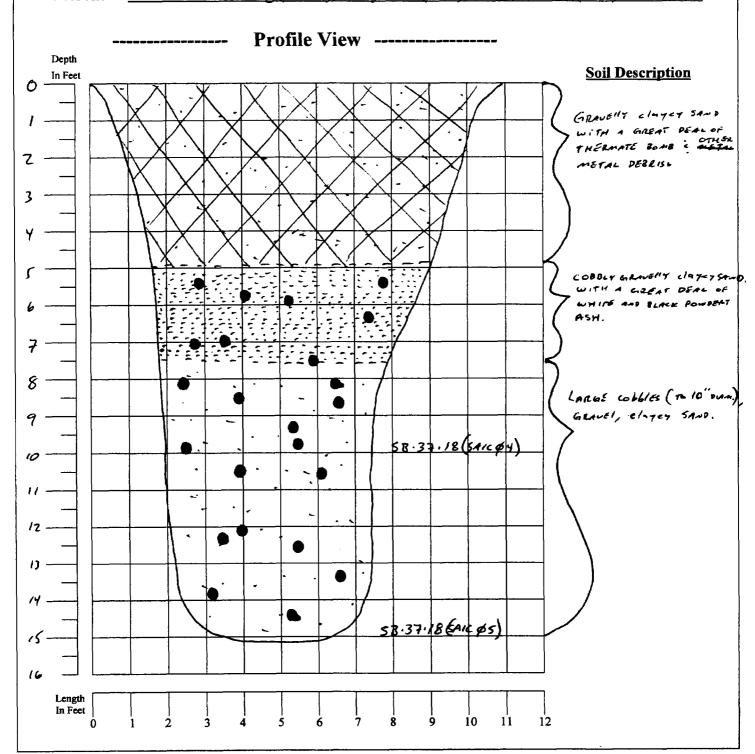
Page 1 of 2 Date: //z6/00

Test Pit Log

Project Name and Number: Desert Chemical Depot (01-0827-03-6523-028)

Test Pit Number: 58.37.18 Begin: 0835 Completed: 12.00

Personnel: Patrick Soderberg (SAIC), Larry Hart (ATI), Mike Blevins (ATI)





Page 2 of 2 Date: 1/26/00

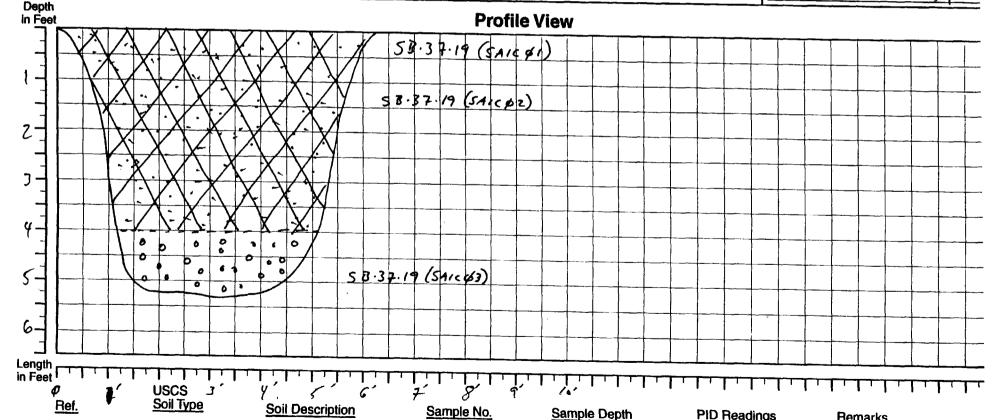
Test Pit Log (Cont.)

	Name and Number: D				-6523-028
Test Pit l	Number and Site Location	n: <u>Site 37</u>	58-3	7.18	
				Plan V	<u>iew</u>
Backho	e Equipment: <u>CASE 580</u>	L Turbo	BLUM	57	
Disposi	tion of IDW: Backfilled		7	·3./4	
Disposi	tion of UXO: <u>N/A</u>		53	37:19	\rightarrow
Depth to	o Water: None encounter	<u>ed</u>		58.37-18	25.25
Surface	Elevation:			\$8.37.14	757.16
Coordin	nates: N S		\ \	·	Monty on er T
			L		
USCS Soil Typ	oe Soil Description	<u>Sample</u>	<u># Sar</u>	nple Depth	P.I.D. Readings
1R 5/3 10WN	Cobbly GRAUEILY CLAYET SAND. - Founded to subsounded cob - subsounded to subangular - clay with 1:ttle or no play	SB:37·18(SA bbles gravel & SAMD) Ticity	aic Ø4)	10'865	John
4/2 grayish brown	Cobbly granelly chapey SAND (GAME AS AROUS).	58.37.18	(suc\$5)	15 BLS	\$ ppm
Comments	S:				

	$\mathcal{I}\mathcal{I}$	<u> </u>
		<u> </u>
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PAGE_/ OF 7

Site Name: DESCRET CHEMICAL DEPOT	Test Pit No.: 53.37.19	Diam Winner
Site Location: SWM4 #37	Surface Elevation:	Plan View
Coordinates: N- E-	Depth to Standing Water: N/A	
Start Time: 1655 2/23/27 FinIsh Time: 1124	Disposition of Excavated Material: BACKFILLED	BLUME ST.
Backhoe Equipment:	Disposition of UXO Encountered:	27-15
Pit Orientation: 4	Personnel: P. Soderberg (SAIC) Geologist—	
Total Depth: 5.5'065	Backhoe Op- CECIL TAYLOR (ATI)	7 (a) (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c
Pit Length:	Helper- DARRYL WALDEN (ATI) Other-	-



Sample Depth

Remarks

Gravely saway soil with gray discolaration and metal debris.

(See page 2.12)

very moist reddish brown clay with few pebbles.



PAGE 7 OF 2

Site Name: 5WMU 37

Test Pit No.: 58 · 37 · 19

Ref.	USCS Soil Type Soil Desc	ription Sample No.	Sample Depth	PID Readings	<u>Remarks</u>
	Gravelly Sandy clay with gray discolored soils.	SB.37.19 (SAICØI)	Ø- Ø.5 jas	фррм	AREA was surranded by rusted metal debis and missile fragmants.
	Gravelly Sawly clay with slay por and gray/white dust.	· Hicks 58.37.19 (SA1c\$2)	1-1.5 Bas	Фррм	

Usery moist public reddish brown day 58.37.19 (8410,83) 5-5.5 Bas Sppm



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Page 1 of 2

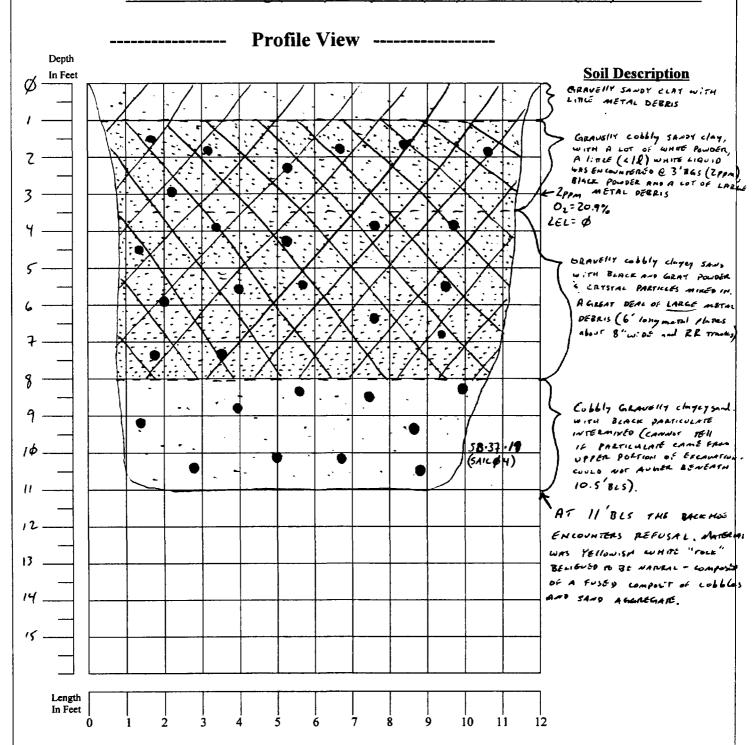
Date: 1/26/00 and 1/25/00

Test Pit Log

Project Name and Number: Deserte Chemical Depot (01-0827-03-6523-028)

Test Pit Number: SB · 37 · 6/9 Begin: OB35 · 6/3 / 15/6 15/5 Completed: 12 of (1/2 of 6)

Personnel: Patrick Soderberg (SAIC), Larry Hart (ATI), Mike Blevins (ATI)





Page 2 of 2
Date: 1/25 and 1/26/00

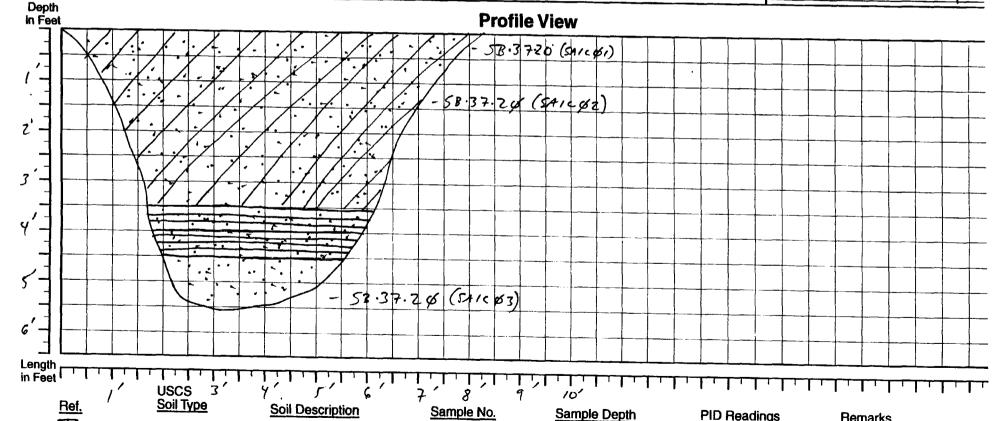
Test Pit Log (Cont.)

Project Name and Number: <u>Descret Chemical Depot - 01-0827-03-6523-028</u> Test Pit Number and Site Location: <u>Site 37 58 37 /9</u>
Plan View
Backhoe Equipment: CASE 580L Turbo
Disposition of IDW: Backfilled
Disposition of UXO: N/A
Disposition of UXO: N/A Depth to Water: None encountered Surface Flourtiers
Surface Elevation:
Coordinates: NS
USCS Soil Type Soil Description Sample # Sample Depth P.I.D. Readings OYR 3/2 Colbly gravelly clargey cans SB. 37.19 (SAIC\$4) 1\$ BLS Perry dark Interpretation Substantial to Substantial cobbles Substantial to Substantial gravel ? SANO Clay 1: The To an plasticity
Comments:



PAGE / OF Z

Site Name: DESELET CHEMICAL DEPOT	Test Pit No.: 58-37. 20	Plan View
Site Location: 5WMU # 37	Surface Elevation:	Fiall View
Coordinates: N- E-	Depth to Standing Water: N/A	
Start Time: 1/25 2/23/34 Finish Time: 1/50	Disposition of Excavated Material: 3 PERFICES	BLUME ST.
Backhoe Equipment:	Disposition of UXO Encountered:	
	Personnel: P. SODERBERG (SAIC)	58-37-20 588-33-49
Pit Orientation: Hoce	Geologist—	
Total Depth: 5.5'845	Backhoe Op- SECIE TAYLOR (ATI)	
Pit Length:	Helper— MRRYL WALDEN	



(see proce 7. f2)

- Growelly sandy clay w/ metal FINCLIFANTS & white crystalline SUBS and w son matrix.

- GRANTING STANDY CLAY STANDISH BANN - LIGHT RAWN GRAVELLY SAWAY Clay Sample Depth

PID Readings

Remarks



PAGE 2 OF 2

Site Name: SWM4 37

Test Pit No.: SB・37・神2ゆ

Ref.	USCS Soil Type Soil Description	Sample No.	Sample Depth	PID Readings	<u>Remarks</u>
	Evaluating samos clay INTERMIXED WITH WHITE CRYSTALLYZED SULSMANE & METAL FRAGMENTS.	58.37.76 (SAICGI); SAICG	10) Ø-Ø.5 8as	6 ppm	NON-VEGETATED ATLEA - WHITE CRYSTAUENE SUBSTANCE IN SOLE & SAMPLE - RUSTED MUSTILE BODIES PROTEUDING FROM GROUND.
	Gravelly Sandy clay with slag mermi DEBRIS.	58.37.2¢(sauøz)	1-1.5°845	Фррм	LARGE PIECES OF METAL AND MISSILE FRAGMENTS IN HOLE DOWN TO SAMPLE DEPTH.
R	Gravely savoy clay	58.37.7¢ (saic\$3)	5-5.5 Bas	Ø ppm	METAL OFFICE ENDED @ 3.5'865 - SAMPLE COLLECTED BELOW TERRISH Brown Soil bound (3.5-4.5'865).

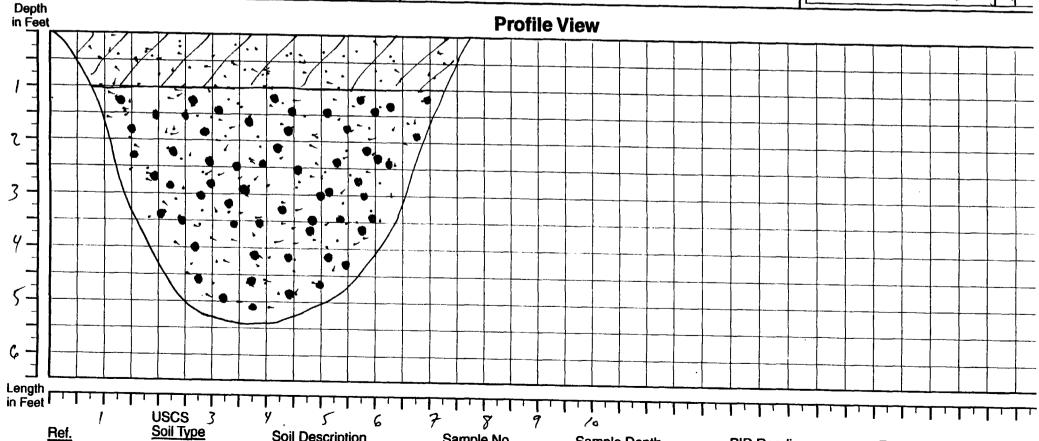
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Ref.

TEST PIT LOG

PAGE | OF ?

· · · —			Site Name: Decear Con	
OW	Plan View	Test Pit No.: SB-37-21	Site Name: DESELET CHEMICAL DEPOT	
	Tidit View	Surface Elevation:	Site Location: SWMY #37	
i]	.1	Depth to Standing Water: NA	Coordinates: N- E-	
	BLUME ST.	Disposition of Excavated Material: 3	Start Time: 1715 2/22/44 Finish Time: 1325	
		Disposition of UXO Encountered:	Backhoe Equipment:	
58/37.12	\$2.37-11 • \$1.37-12 • \$1.37-14	Personnel: P. Soversens (SAIC)		
137.10	951-32-10	Geologist—	Pit Orientation: Hoce	
	58.37.21	Backhoe Op- (ECIL TAYLOR (ATI)	Total Depth: 5.5'843	
		— Helper— DAREYL WALDEN (ATI) Other—		
		Helper— DAREYL WALDEN (ATI) Other—	Pit Length:	



Sample No.

Sample Depth

PID Readings

Remarks

See prent Zof 2 -

Soil Description



PAGE 2 OF 2

Site Name: SWMY #37

Test Pit No.: SB.37.21

Ref.	USCS Soil Type	Soil Description	Sample No. Sample No.	ımple Depth	PID Readings	<u>Remarks</u>
		GALLETY SMOY clay	58.37.21 (SAIC Ø)) Ø-Ø.5 Bas	Фррм	-METAL DEBRIS AROUND AREA -MISCLE FRAMMENTS.
W.		Sawor clay w/pelbles	SB.37.21 (SAIC#Z)	1-1.5 Bas.	\$ ppm	SMALL ARETAL FRAGING IN SAMPLE LOCATION.
		cobbly samor clay	SB.37.21(SAIC\$3)	5-5.5 Bas	Фррт	NO METAL DEBRIS ENCOUNTERED BELOW 1'BGS.

SWMU 11 AND 19 WATER LEVEL MEASUREMENTS

Groundwater Elevation Data Group 3 Phase II RFI, Deseret Chemical Depot

Group 3 Phase II RFI, Deseret Chemical Depot								
Site	Site ID	Measurement	Elevation TOC	Water Level	Water Level	Northing	Easting	
	<u></u>	Date	(MSL; ft)	(BTOC; ft)	(MSL; ft)			
SWMU 11	S-3	9/25/94	5053.63	25.78	5027.85	716593	1756679	
}	ł	12/12/94	5053.63	25.68	5027.95			
		4/23/98	5053.63	22.55	5031.08			
1	Ī	5/20/98	5053.63	22.37	5031.26	•		
		11/13/98	5053.63	23.43	5030.20			
1		2/17/99	5053.63	23.24	5030.39			
		5/5/99	5053.63	23.00	5030.63			
	Ĺ. <u>.</u>	1/27/00	5053.63	23.69	5029.94		· · · · · · · · · · · · · · · · · · ·	
	S-45-90	9/25/94	5049.32	19.15	5030.17	722103	1755904	
!	1	12/12/94	5049.32	19.35	5029.97			
]	4/23/98	5049.32	13.93	5035.39			
1		5/20/98	5049.32	13.98	5035.34			
		11/13/98	5049.32	14.55	5034.77			
		2/17/99	5049.32	14.41	5034.91		u.	
		5/5/99	5049.32	14.28	5035.04			
		1/27/00	5049.32	15.00	5034.32			
1	S-46-90	9/25/94	5048.24	20.75	5027.49	716853	1755631	
		12/12/94	5048.24	50.56	4997.68			
		4/23/98	5048.24	17.25	5030.99			
ļ		5/20/98	5048.24	17.18	5031.06			
· .		11/13/98	5048.24	18.38	5029.86			
	1	2/17/99	5048.24	18.08	5030.16			
		5/5/99	5048.24	17.80	5030.44			
		1/27/00	5048.24	18.50	5029.74			
(S-74-90	9/25/94	5052.54	25.10	5027.44	720481	1755904	
		12/12/94	5052.54	24.72	5027.82			
[[4/23/98	5052.54	21.08	5031.46			
j '	<u> </u>	5/20/98	5052.54	21.16	5031.38			
ļ		11/13/98	5052.54	22.43	5030.11			
]	2/17/99	5052.54	22.03	5030.51		l	
'		5/5/99	5052.54	21.70	5030.84			
ļ.		1/27/00	5052.54	22.45	5030.09			
	S-75-90	9/25/94	5049.62	22.20	5027.42	718677	1754869	
	ļ	12/12/94	5049.62	21.76	5027.86			
		4/23/98	5049.62	18.29	5031.33			
	1	5/20/98	5049.62	18.38	5031.24			
		11/13/98	5049.62	19.65	5029.97			
1		2/17/99	5049.62	19.25	5030.37			
1		5/5/99	5049.62	18.88	5030.74			
		1/27/00	5049.62	19.63	5029.99			

BTOC - Below Top of Casing

TOC - Top of Casing
MSL - Mean Sea Level
NR - Not Recorded

K - Data Recorded by Kleinfelder Associates

Site	Site ID	Measurement	Elevation TOC	Water Level	Water Level	Northing	Easting
		Date	(MSL; ft)	(BTOC; ft)	(MSL; ft)		
SWMU 19	S-113-94	10/22/94	5231.00	109.98	5121.02	2219784.42	428919.48
		12/12/94	5231.00	109.59	5121.41]	
		5/5/95	5231.00	109.32	5121.68		
ŀ		4/23/98	5231.00	108.21	5122.79		ļ
		K 9/30/97	5234.96	110.43	5124.53		
ļ	ļ	5/20/98	5231.00	108.99	5122.01		
ĺ		7/23/98	5231.00	107.82	5123.18	1	
ļ	İ	11/13/98	5231.00	106.89	5124.11	İ	
		2/17/99	5231.00	106.39	5124.61	1	
	1	5/5/99	5231.00	106.72	5124.28		
ļ		1/27/00	5231.00	106.44	5124.56		
	S-114-94	10/22/94	5230.81	109.85	5120.96	2219807.33	428893.36
		12/12/94	5230.81	109.33	5121.48		
	İ	5/5/95	5230.81	109.02	5121.79		
1		4/23/98	5230.81	107.90	5122.91		
		K 9/30/97	5234.76	109.76	5125.00		
		5/20/98	5230.81	107.88	5122.93	[,	
		7/23/98	5230.81	107.47	5123.34	1	
i		11/13/98	5230.81	106.51	5124.30		
		2/17/99	5230.81	106.03	5124.78		
		5/5/99	5230.81	106.37	5124.44		
		1/27/00	5230.81	106.10	5124.71		
	S-115-94	10/22/94	5232.66	111.65	5121.01	2219830.58	428867.18
	Ì	12/12/94	5232.66	111.13	5121.53		
		5/5/95	5232.66	110.98	5121.68		
	1	4/23/98	5232.66	109.69	5122.97		
		K 9/30/97	5236.60	111.20	5125.40		
		5/20/98	5232.66	109.66	5123.00		
		7/23/98	5232.66	109.23	5123.43		
		11/13/98	5232.66	108.20	5124.46		
		2/17/99	5232.66	107.75	5124.91		
		5/5/99	5232.66	108.08	5124.58		
		1/27/00	5232.66	107.81	5124.85		
	S-116-94	10/23/98	5238.08	133.78	5104.30	2219901.79	429015.01
		12/12/94	· 5238.08	133.64	5104.44		
		5/5/95	5238.08	134.06	5104.02		
		4/23/98	5238.08	130.97	5107.11	[
		K 9/30/97	5238.08	115.84	5122.24	·	
		5/20/98	5238.08	129.81	5108.27	l	
		7/23/98	5238.08	123.44	5114.64	ļ	
		11/13/98	5238.08	123.47	5114.61	j	
		2/17/99	5238.08	123.14	5114.94	j	i
		5/5/99	5238.08	123.46	5114.62		
		1/27/00	5238.08	123.27	5114.81		
		1,27/00	2230.00	120.27	J117,01		

BTOC -

Below Top of Casing Top of Casing TOC -MSL Mean Sea Level NR Not Recorded

Data Recorded by Kleinfelder Associates K